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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

April 2, 2024

Jolene Lozewski, P.G.
New York State Department of Environmental Conservation
625 Broadway, 12th floor
Albany, NY 12233

RE: 123 Post Avenue, NYSDEC Site No. 130088 - Monthly O&M Summary

Dear Ms. Lozewski:

This document represents the monthly operation & maintenance (O&M) summary for the soil vapor extraction (SVE) system currently operating at the above referenced site. The report summarizes the maintenance and monitoring activities conducted in March 2024.

Routine Operation & Maintenance

Routine O&M activities were conducted on 3/5/24 & 3/21/24. O&M activities include the collection of operating data such as system vacuum/pressures and air flow rates. During the routine site visits, mechanical components are checked and serviced accordingly. Concentrations of volatile organic compounds (VOCs) in the system's airstream are monitored at key locations using a photo-ionization detector (PID). Prior to use, the PID is calibrated using a 100 ppm isobutylene standard and ambient air. System effluent air samples are collected on a quarterly basis.

O&M Summary

3/5/24 – EAR responded to a system alarm received 3/2/24 at 18:21. The system was found operating upon arrival to the site, however the telemetry unit and shed heater were found off due to a tripped breaker. Following breaker reset, the moisture separator tank was drained of approximately 5-10 gallons and routine O&M was conducted. While onsite, EAR collected two waste characterization samples: one sample from the containerized SVE condensate, and one sample from an old drum containing unidentified liquid. Waste characterization samples were submitted to Phoenix Labs (Manchester, CT) for analysis of volatile organic compounds, RCRA metals, TCLP RCRA metals, polychlorinated biphenyls (PCBs), pH, and flashpoint. The system was operating upon departure from the site. The site data information sheet for 3/5/24 is provided in Appendix A.



3/21/24 – EAR was onsite to conduct routine O&M. The system was operating upon arrival to and departure from the site. The moisture separator tank was drained of approximately 5 gallons. The site data information sheet for 3/21/24 is provided in Appendix A.

Total system uptime for March 2024 is 100%.

System monitoring data for the time period covered in this report is summarized in Table 1.

System Air Sampling

System air sampling was last conducted on 2/20/24. No system air samples were collected for laboratory analysis during this reporting period.

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631.241.8741.

Sincerely,

Ian Hofmann
Project Manager

Cc:
S. Bogardus (DOH)
J. Lawrence (EAR)



TABLES

Table 1: System Monitoring Log



Appendix A: Site Data Information Sheets

130088
 123 POST AVENUE
 WESTBURY, NY 11590

O&M CHECKLIST - SVE SYSTEM

Date: 3/5/24

Inspected By: BC

System:
 SVE Vacuum Relief Valve:
 Hour Meter (Hours):

Arrival
 On / Off
 Open / Closed
155733

Departure
 On / Off
 Open / Closed
 SENSAPHONE OFF
 HEATER OFF

SVE SYSTEM

Liquid Present in Moisture Separator? Amount?	Yes / No;
Moisture Separator Emptied?	Yes / No
Moisture Disposal Drum	F / 75 / 50 / 25 / E
Particulate Filter Inspected?	Yes / <input checked="" type="radio"/> No
Particulate Filter Require Cleaning or Replacement?	Yes / No
Condition of SVE Shed?	<u>GOOD</u>
Vegetation Require Maintenance?	Yes / <input checked="" type="radio"/> No
Any Evidence of System Tampering, Vandalism or Damage?	Yes / <input checked="" type="radio"/> No
Exhaust Stack in Good Condition?	Yes / No

SVE WELL READINGS

SVE Well #	Air Flow (cfm)	Vacuum ("H2O)	PID (ppm)	Flow Control (Ball) Valve	Condition of Well?
RW1-S	<u>32</u>	<u>-18</u>	<u>0</u>	<input checked="" type="radio"/> 75 / 50 / 25 / C	<u>OK</u>
RW2-S	<u>68</u>	<u>-16</u>	<u>0</u>	<input checked="" type="radio"/> 75 / 50 / 25 / C	
RW3-S	<u>57</u>	<u>-10</u>	<u>0</u>	<input checked="" type="radio"/> 75 / 50 / 25 / C	
RW4-S	<u>123</u>	<u>18.9</u>	<u>0</u>	<input checked="" type="radio"/> 75 / 50 / 25 / C	

SVE MONITORING POINTS

	Vacuum ("H2O)		Vacuum ("H2O)	Notes
SV-1	<u>0</u>	SS-1	<u>0</u>	
SV-2	<u>0</u>	SS-2	<u>0</u>	
SV-3	<u>0</u>			

SVE SYSTEM DATA

	Moisture Separator	Pre-Blower (Influent)	Post-Blower (Effluent)	Notes
Vacuum ("H2O)	<u>26</u>	<u>33</u>		
Pressure ("H2O)			<u>0.5</u>	
Air Flow (cfm)		<u>170</u>	<u>170</u>	
PID (ppm)			<u>1.5</u>	
Temp (F)			<u>83</u>	

CARBON SYSTEM DATA

	Pre-Carbon	Between Carbon	Post-Carbon	Notes
Air Flow (cfm)				
PID (ppm)				

SVE RADIUS OF INFLUENCE

Piezometer ID	Vacuum ("H2O)	Notes
MW-1		
MW-2		
MW-3		

Attached Photographs

130088
 123 POST AVENUE
 WESTBURY, NY 11590

O&M CHECKLIST - SVE SYSTEM

Date: 3/21/24

Inspected By: JB

System:
 SVE Vacuum Relief Valve:
 Hour Meter (Hours):

Arrival On / Off
 Open / Closed
 Departure On / Off
 Open / Closed
15952.9

SVE SYSTEM

Liquid Present in Moisture Separator? Amount?	<input checked="" type="radio"/> Yes / <input type="radio"/> No; ~5 gallons
Moisture Separator Emptied?	<input checked="" type="radio"/> Yes / <input type="radio"/> No
Moisture Disposal Drum	F / 75 / 50 / 25 / E
Particulate Filter Inspected?	<input checked="" type="radio"/> Yes / <input type="radio"/> No
Particulate Filter Require Cleaning or Replacement?	Yes / <input checked="" type="radio"/> No
Condition of SVE Shed?	<u>good</u>
Vegetation Require Maintenance?	Yes / <input checked="" type="radio"/> No
Any Evidence of System Tampering, Vandalism or Damage?	Yes / <input checked="" type="radio"/> No
Exhaust Stack in Good Condition?	<input checked="" type="radio"/> Yes / <input type="radio"/> No

SVE WELL READINGS

SVE Well #	Air Flow (cfm)	Vacuum ("H2O)	PID (ppm)	Flow Control (Ball) Valve	Condition of Well?
RW1-S	33	-19	0.2	<input checked="" type="radio"/> / 75 / 50 / 25 / C	<u>good</u>
RW2-S	70	-12	0	<input checked="" type="radio"/> / 75 / 50 / 25 / C	↓
RW3-S	74	-11	0.4	<input checked="" type="radio"/> / 75 / 50 / 25 / C	↓
RW4-S	20	-21	0.3	<input checked="" type="radio"/> / 75 / 50 / 25 / C	↓

SVE MONITORING POINTS

	Vacuum ("H2O)		Vacuum ("H2O)	Notes
SV-1	-0.70	SS-1	-1.10	
SV-2	-0.89	SS-2	-1.12	
SV-3	0.90			

SVE SYSTEM DATA

	Moisture Separator	Pre-Blower (Influent)	Post-Blower (Effluent)	Notes
Vacuum ("H2O)	-26	-33		
Pressure ("H2O)			+2.2	
Air Flow (cfm)		175	180	
PID (ppm)			0.2	
Temp (F)			88	

CARBON SYSTEM DATA

	Pre-Carbon	Between Carbon	Post-Carbon	Notes
Air Flow (cfm)				
PID (ppm)				

SVE RADIUS OF INFLUENCE

Piezometer ID	Vacuum ("H2O)	Notes
MW-1	-1.04	
MW-2		
MW-3		

Attached Photographs