

August 9, 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: July 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 July 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 July, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on July 16 using Summa canisters. These samples were obtained by EnviroTrac, submitted to Con-Test (Pace Analytical Laboratories), and analyzed by Method TO-15. Results are included in Appendix B.
 - Photoionization detector readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [29,500 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations are below the carbon exchange indicator concentrations as shown below.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /min	
Compound	Annual Mass Emission Limit ¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	July 2024 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	15
Tetrachloroethene	1,000	38,000	320
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	39

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

µg/m³ micrograms per cubic meter

- 1 Source of Mass Emission Limit: Part 212-2.2 Table 2 — High Toxicity Air Contaminant List
- 2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.
- 3 Cis-1,2-dichloroethene is not a listed HTAC, so the default is 100 lbs/year.

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, and EX-1C operated near design flow rates (30, 30, and 48 gallons per minute, respectively) for all of July. The pump in EX-1D was shut off on July 1 due to a high-water level in the vault that was determined to be a result of a blockage in the main sewer line. To keep the rest of the system operating, EX-1D was shut off until the blockage was cleared on July 31 at which time EX-1D resumed operation. To date, over 458 million gallons of groundwater have been removed by this system; VOC removal will be calculated in the September monthly report using analytical data from the quarterly groundwater samples collected at the end of September.

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>
	J. Privitera, Esq., WOH	<i>Via email to jprivitera@woh.com</i>
	T. Ruane, WOH	<i>Via email to truane@woh.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: 16-Jul
Weather / Temp: Clear / 90 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		ON		AS Compressor 2 (ON/OFF)	OFF		OFF	
					Air Cooler (ON/OFF)	ON		ON	
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4600		903		Blower 1 Total Runtime (hrs)	74,986.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	74,589.1			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	53				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				VGAC-1 Influent PID (ppm)	1			
VGAC-1 Influent Vacuum ("H2O)	47				VGAC-1 Effluent PID (ppm)	0			
VGAC-1 Effluent Vacuum ("H2O)	50				VGAC-2 Influent PID (ppm)	1			
VGAC-2 Influent Vacuum ("H2O)	48				VGAC-2 Effluent PID (ppm)	0			
VGAC-2 Effluent Vacuum ("H2O)	48				VGAC-3 Influent PID (ppm)	0			
VGAC-3 Influent Vacuum ("H2O)	50				VGAC-3 Effluent PID (ppm)	0			
VGAC-3 Effluent Vacuum ("H2O)	53				Blower Effluent PID (ppm)	0			
VGAC-3 Influent Temp (DegF)					Transfer Pump Total Runtime (hrs)	25,322.1			
Blower Effluent Pressure ("H2O)	10				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)	44	6500	142	1	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	37	4100	89	0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	45	4000	87	2	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	2900	63	0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	5000	109	0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	6000	131	6
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	34	4200	92	0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	0
Air Sparge System									
Compressor 1 Pressure (psi)	16				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	27,731.1				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	182				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	106				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	16.5				AS Manifold Temperature (degF)	100			
Air Cooler Outlet Pressure (psi)	15.5				AS Manifold Pressure	15			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	17	10	AS-11 (psi)/(cfm)		14		7		
AS-2 (psi)/(cfm)	15	9	AS-12B (psi)/(cfm)		16		10		
AS-3 (psi)/(cfm)	15	10	AS-13B (psi)/(cfm)		17		14		
AS-4 (psi)/(cfm)	13	10	AS-14 (psi)/(cfm)		18		10		
AS-5 (psi)/(cfm)	15	13	AS-15 (psi)/(cfm)		17		11		
AS-6 (psi)/(cfm)	17	12	AS-16B (psi)/(cfm)		17		11		
AS-7 (psi)/(cfm)	16	9	AS-17 (psi)/(cfm)		18		11		
AS-8 (psi)/(cfm)	16	12	AS-18 (psi)/(cfm)		14		10		
AS-9 (psi)/(cfm)	18	11	AS-19 (psi)/(cfm)		15		5		
AS-10B (psi)/(cfm)	16	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: 16-Jul
Weather / Temp: Clear / 90 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	24.2 Amps
-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 1/31/24
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	26 Amps
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	

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: 23-Jul
Weather / Temp: Rain / 80 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 12:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		ON		AS Compressor 1 (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		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)	3800		746		Blower 1 Total Runtime (hrs)	75,071.8			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	74,673.9			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	46				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	2.5				VGAC-1 Influent PID (ppm)	2			
VGAC-1 Influent Vacuum ("H2O)	28				VGAC-1 Effluent PID (ppm)	0			
VGAC-1 Effluent Vacuum ("H2O)	34				VGAC-2 Influent PID (ppm)	2			
VGAC-2 Influent Vacuum ("H2O)	30				VGAC-2 Effluent PID (ppm)	0			
VGAC-2 Effluent Vacuum ("H2O)	32				VGAC-3 Influent PID (ppm)	0			
VGAC-3 Influent Vacuum ("H2O)	40				VGAC-3 Effluent PID (ppm)	0			
VGAC-3 Effluent Vacuum ("H2O)	43				Blower Effluent PID (ppm)	0			
VGAC-3 Influent Temp (degF)					Transfer Pump Total Runtime (hrs)	25,322.1			
Blower Effluent Pressure ("H2O)	10				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)	36	5500	120		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	29	3700	81	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2500	55	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	28	4400	96		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	34	5200	113	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	26	3600	79		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	
Air Sparge System									
Compressor 1 Pressure (psi)	21				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	27,900.8				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	140				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	95				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	19.5				AS Manifold Temperature (degF)	94			
Air Cooler Outlet Pressure (psi)	19				AS Manifold Pressure	17			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	20	10	AS-11 (psi)/(cfm)		17		8		
AS-2 (psi)/(cfm)	18	10	AS-12B (psi)/(cfm)		18		15		
AS-3 (psi)/(cfm)	16	15	AS-13B (psi)/(cfm)		18		10		
AS-4 (psi)/(cfm)	17	10	AS-14 (psi)/(cfm)		20		7		
AS-5 (psi)/(cfm)	19	13	AS-15 (psi)/(cfm)		19		9		
AS-6 (psi)/(cfm)	20	10	AS-16B (psi)/(cfm)		18		9		
AS-7 (psi)/(cfm)	18	8	AS-17 (psi)/(cfm)		20		5		
AS-8 (psi)/(cfm)	17	12	AS-18 (psi)/(cfm)		17		10		
AS-9 (psi)/(cfm)	18	11	AS-19 (psi)/(cfm)		8		10		
AS-10B (psi)/(cfm)	18	10							

Notes, Comments & Observations:

Performed semi-annual air compressor maintenance.

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: 23-Jul
Weather / Temp: Rain / 80 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 12:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/30/24
-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	Y	Oil changed on 7/23/24
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
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	

Appendix B
AS/SVE System Influent/Effluent Sampling
Laboratory Analytical Results

July 29, 2024

James Wilkinson
EnviroTrac Ltd - Yaphank, NY
5 Old Dock Road
Yaphank, NY 11980

Project Location: Westbury, NY
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 24G2694

Enclosed are results of analyses for samples as received by the laboratory on July 18, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332EnviroTrac Ltd - Yaphank, NY
5 Old Dock Road
Yaphank, NY 11980
ATTN: James Wilkinson

REPORT DATE: 7/29/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24G2694

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Westbury, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE Influent	24G2694-01	Soil Gas		- EPA TO-15	
SVE Effluent	24G2694-02	Soil Gas		- EPA TO-15	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

L-05

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,1,2-Trichloroethane

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,3-Dichlorobenzene

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,4-Dichlorobenzene

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

24G2694-01[SVE Influent], 24G2694-01RE1[SVE Influent]

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**1,1,2,2-Tetrachloroethane**

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,1,2-Trichloroethane

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,3-Dichlorobenzene

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

1,4-Dichlorobenzene

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

Benzyl chloride

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

Bromoform

24G2694-01[SVE Influent], 24G2694-02[SVE Effluent], B381133-BLK1, B381133-BS1, S108030-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2024
Field Sample #: SVE Influent
Sample ID: 24G2694-01
Sample Matrix: Soil Gas
Sampled: 7/16/2024 10:37

Sample Description/Location:
Sub Description/Location:
Canister ID: 2400
Canister Size: 3 liter
Flow Controller ID: 4186
Sample Type: 15 min

Work Order: 24G2694
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -10.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15								
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time	
	Results	RL		Results	RL		Analyzed	Analyst
Acetone	ND	80		ND	190	40	7/24/24 21:39	KMC
Benzene	ND	2.0		ND	6.4	40	7/24/24 21:39	KMC
Benzyl chloride	ND	2.0	V-06	ND	10	40	7/24/24 21:39	KMC
Bromodichloromethane	ND	2.0		ND	13	40	7/24/24 21:39	KMC
Bromoform	ND	2.0	V-06	ND	21	40	7/24/24 21:39	KMC
Bromomethane	ND	2.0		ND	7.8	40	7/24/24 21:39	KMC
1,3-Butadiene	ND	2.0		ND	4.4	40	7/24/24 21:39	KMC
2-Butanone (MEK)	ND	80		ND	240	40	7/24/24 21:39	KMC
Carbon Disulfide	ND	20		ND	62	40	7/24/24 21:39	KMC
Carbon Tetrachloride	ND	2.0		ND	13	40	7/24/24 21:39	KMC
Chlorobenzene	ND	2.0		ND	9.2	40	7/24/24 21:39	KMC
Chloroethane	ND	2.0		ND	5.3	40	7/24/24 21:39	KMC
Chloroform	ND	2.0		ND	9.8	40	7/24/24 21:39	KMC
Chloromethane	ND	4.0		ND	8.3	40	7/24/24 21:39	KMC
Cyclohexane	ND	2.0		ND	6.9	40	7/24/24 21:39	KMC
Dibromochloromethane	ND	2.0		ND	17	40	7/24/24 21:39	KMC
1,2-Dibromoethane (EDB)	ND	2.0		ND	15	40	7/24/24 21:39	KMC
1,2-Dichlorobenzene	ND	2.0		ND	12	40	7/24/24 21:39	KMC
1,3-Dichlorobenzene	ND	2.0	L-05, V-06	ND	12	40	7/24/24 21:39	KMC
1,4-Dichlorobenzene	ND	2.0	L-05, V-06	ND	12	40	7/24/24 21:39	KMC
Dichlorodifluoromethane (Freon 12)	ND	2.0		ND	9.9	40	7/24/24 21:39	KMC
1,1-Dichloroethane	ND	2.0		ND	8.1	40	7/24/24 21:39	KMC
1,2-Dichloroethane	ND	2.0		ND	8.1	40	7/24/24 21:39	KMC
1,1-Dichloroethylene	ND	2.0		ND	7.9	40	7/24/24 21:39	KMC
cis-1,2-Dichloroethylene	75	2.0		300	7.9	40	7/24/24 21:39	KMC
trans-1,2-Dichloroethylene	ND	2.0		ND	7.9	40	7/24/24 21:39	KMC
1,2-Dichloropropane	ND	2.0		ND	9.2	40	7/24/24 21:39	KMC
cis-1,3-Dichloropropene	ND	2.0		ND	9.1	40	7/24/24 21:39	KMC
trans-1,3-Dichloropropene	ND	2.0		ND	9.1	40	7/24/24 21:39	KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	2.0		ND	14	40	7/24/24 21:39	KMC
1,4-Dioxane	ND	20		ND	72	40	7/24/24 21:39	KMC
Ethanol	ND	80		ND	150	40	7/24/24 21:39	KMC
Ethyl Acetate	ND	20		ND	72	40	7/24/24 21:39	KMC
Ethylbenzene	ND	2.0		ND	8.7	40	7/24/24 21:39	KMC
4-Ethyltoluene	ND	2.0		ND	9.8	40	7/24/24 21:39	KMC
Heptane	ND	2.0		ND	8.2	40	7/24/24 21:39	KMC
Hexachlorobutadiene	ND	2.0		ND	21	40	7/24/24 21:39	KMC

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ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2024
Field Sample #: SVE Influent
Sample ID: 24G2694-01
Sample Matrix: Soil Gas
Sampled: 7/16/2024 10:37

Sample Description/Location:
Sub Description/Location:
Canister ID: 2400
Canister Size: 3 liter
Flow Controller ID: 4186
Sample Type: 15 min

Work Order: 24G2694
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -10.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Sample Flags: RL-11									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	80		ND	280	40	7/24/24 21:39	KMC	
2-Hexanone (MBK)	ND	2.0		ND	8.2	40	7/24/24 21:39	KMC	
Isopropanol	ND	80		ND	200	40	7/24/24 21:39	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	2.0		ND	7.2	40	7/24/24 21:39	KMC	
Methylene Chloride	ND	20		ND	69	40	7/24/24 21:39	KMC	
4-Methyl-2-pentanone (MIBK)	ND	2.0		ND	8.2	40	7/24/24 21:39	KMC	
Naphthalene	ND	2.0		ND	10	40	7/24/24 21:39	KMC	
Propene	ND	80		ND	140	40	7/24/24 21:39	KMC	
Styrene	ND	2.0		ND	8.5	40	7/24/24 21:39	KMC	
1,1,2,2-Tetrachloroethane	ND	2.0	L-05, V-06	ND	14	40	7/24/24 21:39	KMC	
Tetrachloroethylene	4200	15		28000	100	300	7/24/24 22:08	KMC	
Tetrahydrofuran	ND	20		ND	59	40	7/24/24 21:39	KMC	
Toluene	ND	2.0		ND	7.5	40	7/24/24 21:39	KMC	
1,2,4-Trichlorobenzene	ND	2.0		ND	15	40	7/24/24 21:39	KMC	
1,1,1-Trichloroethane	ND	2.0		ND	11	40	7/24/24 21:39	KMC	
1,1,2-Trichloroethane	ND	2.0	L-05, V-06	ND	11	40	7/24/24 21:39	KMC	
Trichloroethylene	210	2.0		1200	11	40	7/24/24 21:39	KMC	
Trichlorofluoromethane (Freon 11)	ND	8.0		ND	45	40	7/24/24 21:39	KMC	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	8.0		ND	61	40	7/24/24 21:39	KMC	
1,2,4-Trimethylbenzene	ND	2.0		ND	9.8	40	7/24/24 21:39	KMC	
1,3,5-Trimethylbenzene	ND	2.0		ND	9.8	40	7/24/24 21:39	KMC	
Vinyl Acetate	ND	40		ND	140	40	7/24/24 21:39	KMC	
Vinyl Chloride	ND	2.0		ND	5.1	40	7/24/24 21:39	KMC	
m&p-Xylene	ND	4.0		ND	17	40	7/24/24 21:39	KMC	
o-Xylene	ND	2.0		ND	8.7	40	7/24/24 21:39	KMC	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	79.7	70-130	7/24/24 21:39
4-Bromofluorobenzene (1)	85.8	70-130	7/24/24 22:08

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ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 7/18/2024
Field Sample #: SVE Effluent
Sample ID: 24G2694-02
Sample Matrix: Soil Gas
Sampled: 7/16/2024 10:38

Sample Description/Location:
Sub Description/Location:
Canister ID: 2276
Canister Size: 3 liter
Flow Controller ID: 4072
Sample Type: 15 min

Work Order: 24G2694
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -7.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	ND	4.0		ND	9.5	2	7/24/24 21:12	KMC	
Benzene	ND	0.10		ND	0.32	2	7/24/24 21:12	KMC	
Benzyl chloride	ND	0.10	V-06	ND	0.52	2	7/24/24 21:12	KMC	
Bromodichloromethane	ND	0.10		ND	0.67	2	7/24/24 21:12	KMC	
Bromoform	ND	0.10	V-06	ND	1.0	2	7/24/24 21:12	KMC	
Bromomethane	ND	0.10		ND	0.39	2	7/24/24 21:12	KMC	
1,3-Butadiene	ND	0.10		ND	0.22	2	7/24/24 21:12	KMC	
2-Butanone (MEK)	ND	4.0		ND	12	2	7/24/24 21:12	KMC	
Carbon Disulfide	ND	1.0		ND	3.1	2	7/24/24 21:12	KMC	
Carbon Tetrachloride	ND	0.10		ND	0.63	2	7/24/24 21:12	KMC	
Chlorobenzene	ND	0.10		ND	0.46	2	7/24/24 21:12	KMC	
Chloroethane	ND	0.10		ND	0.26	2	7/24/24 21:12	KMC	
Chloroform	ND	0.10		ND	0.49	2	7/24/24 21:12	KMC	
Chloromethane	ND	0.20		ND	0.41	2	7/24/24 21:12	KMC	
Cyclohexane	ND	0.10		ND	0.34	2	7/24/24 21:12	KMC	
Dibromochloromethane	ND	0.10		ND	0.85	2	7/24/24 21:12	KMC	
1,2-Dibromoethane (EDB)	ND	0.10		ND	0.77	2	7/24/24 21:12	KMC	
1,2-Dichlorobenzene	ND	0.10		ND	0.60	2	7/24/24 21:12	KMC	
1,3-Dichlorobenzene	ND	0.10	L-05, V-06	ND	0.60	2	7/24/24 21:12	KMC	
1,4-Dichlorobenzene	ND	0.10	L-05, V-06	ND	0.60	2	7/24/24 21:12	KMC	
Dichlorodifluoromethane (Freon 12)	0.62	0.10		3.1	0.49	2	7/24/24 21:12	KMC	
1,1-Dichloroethane	ND	0.10		ND	0.40	2	7/24/24 21:12	KMC	
1,2-Dichloroethane	ND	0.10		ND	0.40	2	7/24/24 21:12	KMC	
1,1-Dichloroethylene	ND	0.10		ND	0.40	2	7/24/24 21:12	KMC	
cis-1,2-Dichloroethylene	9.9	0.10		39	0.40	2	7/24/24 21:12	KMC	
trans-1,2-Dichloroethylene	0.14	0.10		0.55	0.40	2	7/24/24 21:12	KMC	
1,2-Dichloropropane	ND	0.10		ND	0.46	2	7/24/24 21:12	KMC	
cis-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/24/24 21:12	KMC	
trans-1,3-Dichloropropene	ND	0.10		ND	0.45	2	7/24/24 21:12	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10		ND	0.70	2	7/24/24 21:12	KMC	
1,4-Dioxane	ND	1.0		ND	3.6	2	7/24/24 21:12	KMC	
Ethanol	ND	4.0		ND	7.5	2	7/24/24 21:12	KMC	
Ethyl Acetate	ND	1.0		ND	3.6	2	7/24/24 21:12	KMC	
Ethylbenzene	ND	0.10		ND	0.43	2	7/24/24 21:12	KMC	
4-Ethyltoluene	ND	0.10		ND	0.49	2	7/24/24 21:12	KMC	
Heptane	ND	0.10		ND	0.41	2	7/24/24 21:12	KMC	
Hexachlorobutadiene	ND	0.10		ND	1.1	2	7/24/24 21:12	KMC	

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ANALYTICAL RESULTS

Project Location: Westbury, NY
 Date Received: 7/18/2024
Field Sample #: SVE Effluent
Sample ID: 24G2694-02
 Sample Matrix: Soil Gas
 Sampled: 7/16/2024 10:38

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2276
 Canister Size: 3 liter
 Flow Controller ID: 4072
 Sample Type: 15 min

Work Order: 24G2694
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -7.1
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Hexane	ND	4.0		ND	14	2	7/24/24	21:12	KMC
2-Hexanone (MBK)	ND	0.10		ND	0.41	2	7/24/24	21:12	KMC
Isopropanol	ND	4.0		ND	9.8	2	7/24/24	21:12	KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10		ND	0.36	2	7/24/24	21:12	KMC
Methylene Chloride	ND	1.0		ND	3.5	2	7/24/24	21:12	KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10		ND	0.41	2	7/24/24	21:12	KMC
Naphthalene	ND	0.10		ND	0.52	2	7/24/24	21:12	KMC
Propene	ND	4.0		ND	6.9	2	7/24/24	21:12	KMC
Styrene	ND	0.10		ND	0.43	2	7/24/24	21:12	KMC
1,1,2,2-Tetrachloroethane	ND	0.10	L-05, V-06	ND	0.69	2	7/24/24	21:12	KMC
Tetrachloroethylene	47	0.10		320	0.68	2	7/24/24	21:12	KMC
Tetrahydrofuran	ND	1.0		ND	2.9	2	7/24/24	21:12	KMC
Toluene	0.35	0.10		1.3	0.38	2	7/24/24	21:12	KMC
1,2,4-Trichlorobenzene	ND	0.10		ND	0.74	2	7/24/24	21:12	KMC
1,1,1-Trichloroethane	ND	0.10		ND	0.55	2	7/24/24	21:12	KMC
1,1,2-Trichloroethane	ND	0.10	L-05, V-06	ND	0.55	2	7/24/24	21:12	KMC
Trichloroethylene	2.7	0.10		15	0.54	2	7/24/24	21:12	KMC
Trichlorofluoromethane (Freon 11)	ND	0.40		ND	2.2	2	7/24/24	21:12	KMC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40		ND	3.1	2	7/24/24	21:12	KMC
1,2,4-Trimethylbenzene	ND	0.10		ND	0.49	2	7/24/24	21:12	KMC
1,3,5-Trimethylbenzene	ND	0.10		ND	0.49	2	7/24/24	21:12	KMC
Vinyl Acetate	ND	2.0		ND	7.0	2	7/24/24	21:12	KMC
Vinyl Chloride	ND	0.10		ND	0.26	2	7/24/24	21:12	KMC
m&p-Xylene	ND	0.20		ND	0.87	2	7/24/24	21:12	KMC
o-Xylene	ND	0.10		ND	0.43	2	7/24/24	21:12	KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	87.6	70-130	7/24/24 21:12

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Sample Extraction Data**Prep Method:TO-15 Prep****Analytical Method:EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24G2694-01 [SVE Influent]	B381133	2	1	N/A	1000	200	10	07/24/24
24G2694-01RE1 [SVE Influent]	B381133	2	149.9	6.67	1000	200	200	07/24/24
24G2694-02 [SVE Effluent]	B381133	1.5	1	N/A	1000	200	150	07/24/24

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B381133 - TO-15 Prep											
Blank (B381133-BLK1)					Prepared & Analyzed: 07/24/24						
Acetone	ND	1.4									
Benzene	ND	0.034									
Benzyl chloride	ND	0.034									V-06
Bromodichloromethane	ND	0.034									
Bromoform	ND	0.034									V-06
Bromomethane	ND	0.034									
1,3-Butadiene	ND	0.034									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.34									
Carbon Tetrachloride	ND	0.034									
Chlorobenzene	ND	0.034									
Chloroethane	ND	0.034									
Chloroform	ND	0.034									
Chloromethane	ND	0.069									
Cyclohexane	ND	0.034									
Dibromochloromethane	ND	0.034									
1,2-Dibromoethane (EDB)	ND	0.034									
1,2-Dichlorobenzene	ND	0.034									
1,3-Dichlorobenzene	ND	0.034									L-05, V-06
1,4-Dichlorobenzene	ND	0.034									L-05, V-06
Dichlorodifluoromethane (Freon 12)	ND	0.034									
1,1-Dichloroethane	ND	0.034									
1,2-Dichloroethane	ND	0.034									
1,1-Dichloroethylene	ND	0.034									
cis-1,2-Dichloroethylene	ND	0.034									
trans-1,2-Dichloroethylene	ND	0.034									
1,2-Dichloropropane	ND	0.034									
cis-1,3-Dichloropropene	ND	0.034									
trans-1,3-Dichloropropene	ND	0.034									
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.034									
1,4-Dioxane	ND	0.34									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.34									
Ethylbenzene	ND	0.034									
4-Ethyltoluene	ND	0.034									
Heptane	ND	0.034									
Hexachlorobutadiene	ND	0.034									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.034									
Isopropanol	ND	1.4									
Methyl tert-Butyl Ether (MTBE)	ND	0.034									
Methylene Chloride	ND	0.34									
4-Methyl-2-pentanone (MIBK)	ND	0.034									
Naphthalene	ND	0.034									
Propene	ND	1.4									
Styrene	ND	0.034									

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B381133 - TO-15 Prep											
Blank (B381133-BLK1)					Prepared & Analyzed: 07/24/24						
1,1,2,2-Tetrachloroethane	ND	0.034									L-05, V-06
Tetrachloroethylene	ND	0.034									
Tetrahydrofuran	ND	0.34									
Toluene	ND	0.034									
1,2,4-Trichlorobenzene	ND	0.034									L-05, V-06
1,1,1-Trichloroethane	ND	0.034									
1,1,2-Trichloroethane	ND	0.034									
Trichloroethylene	ND	0.034									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.034									
1,3,5-Trimethylbenzene	ND	0.034									
Vinyl Acetate	ND	0.69									
Vinyl Chloride	ND	0.034									
m&p-Xylene	ND	0.069									
o-Xylene	ND	0.034									
Surrogate: 4-Bromofluorobenzene (1)	6.86				8.00		85.8	70-130			
LCS (B381133-BS1)					Prepared & Analyzed: 07/24/24						
Acetone	4.31				5.00		86.3	70-130			V-06
Benzene	5.65				5.00		113	70-130			
Benzyl chloride	6.42				5.00		128	70-130			
Bromodichloromethane	5.72				5.00		114	70-130			
Bromoform	6.48				5.00		130	70-130			V-06
Bromomethane	5.51				5.00		110	70-130			
1,3-Butadiene	4.81				5.00		96.2	70-130			
2-Butanone (MEK)	4.67				5.00		93.3	70-130			
Carbon Disulfide	5.90				5.00		118	70-130			
Carbon Tetrachloride	5.70				5.00		114	70-130			
Chlorobenzene	5.80				5.00		116	70-130			
Chloroethane	5.03				5.00		101	70-130			
Chloroform	5.88				5.00		118	70-130			
Chloromethane	4.82				5.00		96.4	70-130			
Cyclohexane	4.84				5.00		96.8	70-130			
Dibromochloromethane	6.20				5.00		124	70-130			
1,2-Dibromoethane (EDB)	5.89				5.00		118	70-130			
1,2-Dichlorobenzene	5.77				5.00		115	70-130			
1,3-Dichlorobenzene	6.77				5.00		135	* 70-130			L-05, V-06
1,4-Dichlorobenzene	6.60				5.00		132	* 70-130			L-05, V-06
Dichlorodifluoromethane (Freon 12)	5.62				5.00		112	70-130			
1,1-Dichloroethane	4.85				5.00		97.0	70-130			
1,2-Dichloroethane	5.21				5.00		104	70-130			
1,1-Dichloroethylene	5.39				5.00		108	70-130			
cis-1,2-Dichloroethylene	5.35				5.00		107	70-130			
trans-1,2-Dichloroethylene	4.76				5.00		95.2	70-130			
1,2-Dichloropropane	6.17				5.00		123	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B381133 - TO-15 Prep											
LCS (B381133-BS1)					Prepared & Analyzed: 07/24/24						
cis-1,3-Dichloropropene	5.56				5.00		111	70-130			
trans-1,3-Dichloropropene	5.62				5.00		112	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.40				5.00		108	70-130			
1,4-Dioxane	5.54				5.00		111	70-130			
Ethanol	5.12				5.00		102	70-130			
Ethyl Acetate	4.31				5.00		86.2	70-130			
Ethylbenzene	5.28				5.00		106	70-130			
4-Ethyltoluene	4.94				5.00		98.8	70-130			
Heptane	5.41				5.00		108	70-130			
Hexachlorobutadiene	5.57				5.00		111	70-130			
Hexane	4.42				5.00		88.5	70-130			
2-Hexanone (MBK)	5.24				5.00		105	70-130			
Isopropanol	4.52				5.00		90.4	70-130			
Methyl tert-Butyl Ether (MTBE)	4.56				5.00		91.2	70-130			
Methylene Chloride	4.84				5.00		96.7	70-130			
4-Methyl-2-pentanone (MIBK)	5.44				5.00		109	70-130			
Naphthalene	4.11				5.00		82.1	70-130			
Propene	5.91				5.00		118	70-130			
Styrene	5.33				5.00		107	70-130			
1,1,2,2-Tetrachloroethane	6.70				5.00		134	* 70-130			L-05, V-06
Tetrachloroethylene	5.89				5.00		118	70-130			
Tetrahydrofuran	4.31				5.00		86.3	70-130			
Toluene	5.61				5.00		112	70-130			
1,2,4-Trichlorobenzene	4.92				5.00		98.4	70-130			
1,1,1-Trichloroethane	5.36				5.00		107	70-130			
1,1,2-Trichloroethane	6.64				5.00		133	* 70-130			L-05, V-06
Trichloroethylene	5.49				5.00		110	70-130			
Trichlorofluoromethane (Freon 11)	5.37				5.00		107	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.54				5.00		111	70-130			
1,2,4-Trimethylbenzene	5.12				5.00		102	70-130			
1,3,5-Trimethylbenzene	5.66				5.00		113	70-130			
Vinyl Acetate	4.86				5.00		97.2	70-130			
Vinyl Chloride	5.39				5.00		108	70-130			
m&p-Xylene	11.8				10.0		118	70-130			
o-Xylene	5.83				5.00		117	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.08				8.00		101	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S091464-ICV1)			Lab File ID: L23A214020.D			Analyzed: 08/02/23 23:42			
Bromochloromethane (1)	300782	2.867	314027	2.871	96	60 - 140	-0.0040	+/-0.50	
1,4-Difluorobenzene (1)	878479	3.54	895773	3.54	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	823159	5.202	837397	5.202	98	60 - 140	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S108030-CCV1)			Lab File ID: L24A206003.D			Analyzed: 07/24/24 09:50			
Bromochloromethane (1)	265953	2.864				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	723204	3.538				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	636833	5.201				60 - 140		+/-0.50	
LCS (B381133-BS1)			Lab File ID: L24A206004.D			Analyzed: 07/24/24 10:17			
Bromochloromethane (1)	258159	2.87	265953	2.864	97	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	727652	3.538	723204	3.538	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	636357	5.201	636833	5.201	100	60 - 140	0.0000	+/-0.50	
Blank (B381133-BLK1)			Lab File ID: L24A206007.D			Analyzed: 07/24/24 11:44			
Bromochloromethane (1)	263440	2.869	265953	2.864	99	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	607009	3.537	723204	3.538	84	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	578739	5.199	636833	5.201	91	60 - 140	-0.0020	+/-0.50	
SVE Effluent (24G2694-02)			Lab File ID: L24A206022.D			Analyzed: 07/24/24 21:12			
Bromochloromethane (1)	264477	2.869	265953	2.864	99	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	643667	3.538	723204	3.538	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	641251	5.2	636833	5.201	101	60 - 140	-0.0010	+/-0.50	
SVE Influent (24G2694-01)			Lab File ID: L24A206023.D			Analyzed: 07/24/24 21:39			
Bromochloromethane (1)	255661	2.869	265953	2.864	96	60 - 140	0.0050	+/-0.50	
1,4-Difluorobenzene (1)	611343	3.537	723204	3.538	85	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	630624	5.199	636833	5.201	99	60 - 140	-0.0020	+/-0.50	
SVE Influent (24G2694-01RE1)			Lab File ID: L24A206024.D			Analyzed: 07/24/24 22:08			
Bromochloromethane (1)	252804	2.864	265953	2.864	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	593491	3.537	723204	3.538	82	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (1)	594889	5.199	636833	5.201	93	60 - 140	-0.0020	+/-0.50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CONTINUING CALIBRATION CHECK

EPA TO-15

S108030-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	4.20	1.122255	0.9429576		-16.0	30
Benzene	A	5.00	5.68	0.7254293	0.8248074		13.7	30
Benzyl chloride	A	5.00	6.55	0.65192	0.8536769		30.9	30 *
Bromodichloromethane	A	5.00	5.93	0.5567047	0.660441		18.6	30
Bromoform	A	5.00	6.56	0.4926101	0.6468258		31.3	30 *
Bromomethane	A	5.00	5.42	0.6308676	0.6833087		8.3	30
1,3-Butadiene	A	5.00	4.64	0.551149	0.5111099		-7.3	30
2-Butanone (MEK)	A	5.00	4.49	1.381604	1.240773		-10.2	30
Carbon Disulfide	A	5.00	5.47	2.063757	2.256345		9.3	30
Carbon Tetrachloride	A	5.00	5.77	0.5110368	0.5901671		15.5	30
Chlorobenzene	A	5.00	5.84	0.7219812	0.8431724		16.8	30
Chloroethane	A	5.00	4.94	0.411751	0.406905		-1.2	30
Chloroform	A	5.00	5.91	1.439332	1.700264		18.1	30
Chloromethane	A	5.00	4.72	0.6101459	0.5760055		-5.6	30
Cyclohexane	A	5.00	4.69	0.3030286	0.284494		-6.1	30
Dibromochloromethane	A	5.00	6.25	0.5644122	0.7056669		25.0	30
1,2-Dibromoethane (EDB)	A	5.00	6.07	0.5076449	0.616669		21.5	30
1,2-Dichlorobenzene	A	5.00	5.94	0.6234765	0.7409742		18.8	30
1,3-Dichlorobenzene	A	5.00	6.89	0.6267236	0.8631136		37.7	30 *
1,4-Dichlorobenzene	A	5.00	6.89	0.5801365	0.7992174		37.8	30 *
Dichlorodifluoromethane (Freon 12)	A	5.00	5.44	1.768079	1.922463		8.7	30
1,1-Dichloroethane	A	5.00	4.71	1.392824	1.312737		-5.7	30
1,2-Dichloroethane	A	5.00	5.14	0.9772927	1.005579		2.9	30
1,1-Dichloroethylene	A	5.00	5.21	1.127187	1.174156		4.2	30
cis-1,2-Dichloroethylene	A	5.00	5.35	0.908952	0.9731704		7.1	30
trans-1,2-Dichloroethylene	A	5.00	4.65	1.128232	1.049659		-7.0	30
1,2-Dichloropropane	A	5.00	6.18	0.2601948	0.3217394		23.7	30
cis-1,3-Dichloropropene	A	5.00	6.04	0.3962271	0.4786412		20.8	30
trans-1,3-Dichloropropene	A	5.00	5.24	0.3522842	0.3692988		4.8	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.51	1.784687	1.966411		10.2	30
1,4-Dioxane	A	5.00	5.33	0.1742852	0.1857755		6.6	30
Ethanol	A	5.00	4.57	0.1732414	0.158428		-8.6	30
Ethyl Acetate	A	5.00	4.37	0.2390169	0.2090354		-12.5	30
Ethylbenzene	A	5.00	5.41	1.176902	1.27307		8.2	30
4-Ethyltoluene	A	5.00	4.87	1.247069	1.215216		-2.6	30
Heptane	A	5.00	5.34	0.2286847	0.2441734		6.8	30
Hexachlorobutadiene	A	5.00	6.19	0.4755616	0.589173		23.9	30
Hexane	A	5.00	4.26	0.7442178	0.6342053		-14.8	30

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CONTINUING CALIBRATION CHECK

EPA TO-15

S108030-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.17	0.5993899	0.6194754		3.4	30
Isopropanol	A	5.00	4.65	1.180699	1.097253		-7.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.43	2.130891	1.888977		-11.4	30
Methylene Chloride	A	5.00	4.73	0.8716214	0.8238689		-5.5	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.44	0.2414371	0.2625671		8.8	30
Naphthalene	A	5.00	4.47	0.954618	0.8537347		-10.6	30
Propene	A	5.00	5.56	0.4075236	0.4533132		11.2	30
Styrene	A	5.00	5.42	0.6680173	0.7234424		8.3	30
1,1,2,2-Tetrachloroethane	A	5.00	7.25	0.6838293	0.9917476		45.0	30 *
Tetrachloroethylene	A	5.00	5.98	0.4174566	0.498949		19.5	30
Tetrahydrofuran	A	5.00	3.90	0.9111963	0.7106278		-22.0	30
Toluene	A	5.00	5.53	0.9385805	1.038911		10.7	30
1,2,4-Trichlorobenzene	A	5.00	5.23	0.3693275	0.3862111		4.6	30
1,1,1-Trichloroethane	A	5.00	5.76	0.5075792	0.5846251		15.2	30
1,1,2-Trichloroethane	A	5.00	6.89	0.309655	0.426493		37.7	30 *
Trichloroethylene	A	5.00	5.53	0.3356598	0.371405		10.6	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.28	1.816743	1.919022		5.6	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.51	1.436582	1.584154		10.3	30
1,2,4-Trimethylbenzene	A	5.00	5.42	1.021302	1.106048		8.3	30
1,3,5-Trimethylbenzene	A	5.00	5.79	1.055296	1.221155		15.7	30
Vinyl Acetate	A	5.00	4.97	1.463541	1.454049		-0.6	30
Vinyl Chloride	A	5.00	5.31	0.7105757	0.75478		6.2	30
m&p-Xylene	A	10.0	12.0	0.9711506	1.16734		20.2	30
o-Xylene	A	5.00	5.93	0.9550518	1.132818		18.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	NY,ME,NH
Benzene	FL,NJ,NY,ME,NH,VA
Benzyl chloride	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
1,3-Butadiene	NJ,NY,ME,NH,VA
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
Carbon Disulfide	NJ,NY,ME,NH,VA
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroethane	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Chloromethane	FL,NJ,NY,ME,NH,VA
Cyclohexane	NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NJ,NY,ME,NH,VA
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Heptane	NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Hexane	FL,NJ,NY,ME,NH,VA
Isopropanol	NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA

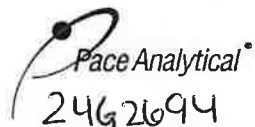
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
Vinyl Acetate	FL,NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
FL	Florida Department of Health	E871027 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024



Phone: 413-525-2332
Fax: 413-525-6405
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DOC #378 REV3_11232021

CHAIN OF CUSTODY RECORD (AIR)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: **EnviroTree**
Address: **5 Old Dock Rd, Yaphank, NY**
Phone: **(631) 924-3001**
Project Name: **Prost St Owl**
Project Location: **Westbury, NY**
Project Number:
Project Manager: **JIM WILKINSON**
Pace Quote Name/Number:
Invoice Recipient: **JIM WILKINSON**
Sampled By: **JIM WILKINSON**

Requested Turnaround Time	
7-Day ☐	10-Day ☒
Due Date:	
Rush-Approval Required	
1-Day ☐	3-Day ☐
2-Day ☐	4-Day ☐
Data Delivery	
Format: PDF ☒	EXCEL ☒
Other:	
CLP Like Data Pkg Required: ☐	
Email To: jamesw@envirotree.com	
Fax To #:	

ANALYSIS REQUESTED

Initial Pressure	Final Pressure	Lab Receipt Pressure	" Hg	
Please fill out completely, sign, date and retain the yellow copy for your records				
Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply				
For summa canister and flow controller information please refer to Con-Test's Air Media Agreement				
Summa Can ID	Flow Controller ID			

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume						
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m ³ /min ☐ L/min	Code	☐ Liters ☐ m ³						
01	SVE EFFLUENT	10:22	10:37	15		SG		✓		30.8	10.7	2400	4186
02	SVE INFLUENT	10:23	10:38	15		SG		✓		29.9	11.1	2276	4072

Comments: **Both samples collected on 7/16/24**
Effluent-2276/4072, Influent-2400/4186 - KF 7/23/24

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 7/16/24 11:00	Detection Limit Requirements MA ☐	Special Requirements ☐ MA MCP Required
Received by: (signature) <i>[Signature]</i> Pace	Date/Time: 7/17/24 12:15		☐ MCP Certification Form Required
Relinquished by: (signature) <i>[Signature]</i> Pace	Date/Time: 7/17/24 17:00	CT ☐	☐ CT RCP Required
Received by: (signature) <i>[Signature]</i>	Date/Time: 7/17/24 17:00		☐ RCP Certification Form Required
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 7/17/24 17:20	Other: ☐	☐ Other
Received by: (signature) <i>[Signature]</i>	Date/Time: 7/17/24 17:20	Project Entity ☐ Government ☐ Municipality ☐ MWRA ☐ WRTA ☐ Federal ☐ 21 J ☐ School ☐ City ☐ Brownfield ☐ MBTA	Other ☐ Chromatogram ☐ AIHA-LAP, LLC



NELAC and AIHA-LAP, LLC Accredited

PCB ONLY

☐ Soxhlet
☐ Non Soxhlet

Chris in Pace 7/18/24 00:05 *Red. MB* *PACE* 7/18/24 06:00 *Rel. MB* *PACE* 7/18/24 08:14 *Rel. MB* 7-18-24 08

	DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Enviro Trac
 Project Frost St OUI
 MCP/RCP Required —
 Deliverable Package Requirement —
 Location Westbury NY
 PWSID# (When Applicable) —
 Arrival Method Courier
 Received By / Date / Time TPH 7-18-24 0814
 Back-Sheet By / Date / Time TPH 7-18-24 1150
 Temperature Method — # —
 Temp $\leq 6^{\circ}\text{C}$ ☐ Actual Temperature —
 Rush Samples: Yes ☒ No ☐ Notify —
 Short Hold: Yes ☒ No ☐ Notify —

Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
 Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐
COC Included: (Check all included)		
Client ☒	Analysis ☒	Sampler Name ☒
Project ☒	IDs ☒	Collection Date/Time ☒

Container	#	Size	Regulator	Duration	Accessories		
Summa Cans	2	3L	2	15min	Nut/Ferrule		IC Train
Tedlar Bags					Tubing		
TO-17 Tubes					T-Connector		Shipping Charges
Radiello					Syringe		
Pufs/ TO-11					Tedlar		

Can #'s	5	10	15	Regs #'s	5	10	15
1 2400	6	11	16	1 4186	6	11	16
2 2276	7	12	17	2 4072	7	12	17
3	8	13	18	3	8	13	18
4	9	14	19	4	9	14	19
Unused Media	4	9	14	Pufs/TO-17's	5	10	15
1	5	10	15	1	6	11	16
2	6	11	16	2	7	12	17
3	7	12	17	3	8	13	18
4	8	13	18	4	9	14	19