

September 12, 2022

Mr. Alexander Klein, ASP
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: alexander.klein@dec.ny.gov

Re: Progress Report: August 2022
Frost Street Sites: Site ID Nos. 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Klein,

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 August 2022 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 August, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on August 8 using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in Appendix B.
 - Photoionization detector (PID) readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [12,365 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	August 2022 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	7.14
Tetrachloroethene	1,000	38,000	21.1
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	214

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 Annual Mass Emission Limit is 100 lbs/year.

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 August.

EnSafe collected and prepared the additional information requested by NYSDEC on February 21, 2019, (additional pressure transducer data and groundwater elevation maps) to facilitate review and comment on the *Expanded Pumping Test Summary, Findings, and Recommendations*, submitted on August 10, 2018. This information was transmitted to NYSDEC on March 22, 2019.

Groundwater Monitoring

The third quarter groundwater sampling event was performed the week of August 30. Results will be submitted in a forthcoming report.

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>
	C. Bethoney, NYSDOH	<i>Via email to charlotte.bethoney@health.ny.gov</i>
	J. Nealon, NYSDOH	<i>Via email to jacquelyn.nealon@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.	<i>Via email to jprivitera@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: 8-Aug
Weather / Temp: Clear / 90 DEG
Technician / Operator: JW

Arrival Time: 9:00
Departure Time: 13:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		AS Compressor 1 (ON/OFF)	OFF		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)	4400		864		Blower 1 Total Runtime (hrs)	66,991.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	66,330.4			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	51				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				VGAC-1 Influent PID (ppm)	1.0			
VGAC-1 Influent Vacuum ("H2O)	44				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-1 Effluent Vacuum ("H2O)	38				VGAC-2 Influent PID (ppm)	1.0			
VGAC-2 Influent Vacuum ("H2O)	40				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-2 Effluent Vacuum ("H2O)	36				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	50				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	55				Blower Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)					Transfer Pump Total Runtime (hrs)	25,076.8			
Blower Effluent Pressure ("H2O)	9				Condensate Storage Tank Level (gal)	0			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	<u>Vacuum</u>	<u>Velocity</u>	<u>Flow Rate</u>	<u>PID</u>		<u>Vacuum</u>	<u>Velocity</u>	<u>Flow Rate</u>	<u>PID</u>
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	6200	135	0.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4000	87	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	1.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	2800	61	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	34	4600	100	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98	4.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	32	4000	87	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	39	2900	63	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	17.5				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	11,564.1				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	215				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	102				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	19				AS Manifold Temperature (degF)	102			
Air Cooler Outlet Pressure (psi)	17				AS Manifold Pressure	15			
AS Manifold Legs - Pressure/Flow Rate									
	<u>Pressure</u>		<u>Flow Rate</u>			<u>Pressure</u>		<u>Flow Rate</u>	
AS-1 (psi)/(cfm)	0		12		AS-11 (psi)/(cfm)	16		13	
AS-2 (psi)/(cfm)	0		6		AS-12B (psi)/(cfm)	17		8	
AS-3 (psi)/(cfm)	0		8		AS-13B (psi)/(cfm)	18		8	
AS-4 (psi)/(cfm)	7		9		AS-14 (psi)/(cfm)	19		11	
AS-5 (psi)/(cfm)	17		12		AS-15 (psi)/(cfm)	19		11	
AS-6 (psi)/(cfm)	18		10		AS-16B (psi)/(cfm)	18		9	
AS-7 (psi)/(cfm)	18		12		AS-17 (psi)/(cfm)	19		8	
AS-8 (psi)/(cfm)	15		10		AS-18 (psi)/(cfm)	15		15	
AS-9 (psi)/(cfm)	17		13		AS-19 (psi)/(cfm)	15		13	
AS-10B (psi)/(cfm)	18		10						

Notes, Comments & Observations:

AS compressor off upon arrival due to motor overload. Freed impellar, reprogrammed soft start, and restarted AS system.

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: 8-Aug
Weather / Temp: Clear / 90 DEG
Technician / Operator: JW

Arrival Time: 9:00
Departure Time: 13:30

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/27/22
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	27.6 A
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 4/27/22
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	Y	
-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	N	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	Y	Oil changed on 7/15/22
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	28.0 A
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



Friday, August 12, 2022

Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Project ID: ENSAFE-WESTBURY
SDG ID: GCM01044
Sample ID#s: CM01044 - CM01045

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

August 12, 2022

SDG I.D.: GCM01044

Project ID: ENSAFE-WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CM01044	AIR
SVE INFLUENT	CM01045	AIR



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 12, 2022

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 835

Custody Information

Collected by: JW
Received by: CP
Analyzed by: see "By" below

Date

08/08/22 13:26
08/09/22 15:41

Time

Laboratory Data

SDG ID: GCM01044
Phoenix ID: CM01044

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.875	ND	6.00	08/10/22	KCA	6
1,1,1-Trichloroethane	ND	1.10	ND	6.00	08/10/22	KCA	6
1,1,2,2-Tetrachloroethane	ND	0.875	ND	6.00	08/10/22	KCA	6
1,1,2-Trichloroethane	ND	1.10	ND	6.00	08/10/22	KCA	6
1,1-Dichloroethane	ND	1.48	ND	5.99	08/10/22	KCA	6
1,1-Dichloroethene	ND	0.303	ND	1.20	08/10/22	KCA	6
1,2,4-Trichlorobenzene	ND	0.809	ND	6.00	08/10/22	KCA	6
1,2,4-Trimethylbenzene	ND	1.22	ND	5.99	08/10/22	KCA	6
1,2-Dibromoethane(EDB)	ND	0.781	ND	6.00	08/10/22	KCA	6
1,2-Dichlorobenzene	ND	0.999	ND	6.00	08/10/22	KCA	6
1,2-Dichloroethane	ND	1.48	ND	5.99	08/10/22	KCA	6
1,2-dichloropropane	ND	1.30	ND	6.00	08/10/22	KCA	6
1,2-Dichlorotetrafluoroethane	ND	0.859	ND	6.00	08/10/22	KCA	6
1,3,5-Trimethylbenzene	ND	1.22	ND	5.99	08/10/22	KCA	6
1,3-Butadiene	ND	2.71	ND	5.99	08/10/22	KCA	6
1,3-Dichlorobenzene	ND	0.999	ND	6.00	08/10/22	KCA	6
1,4-Dichlorobenzene	ND	0.999	ND	6.00	08/10/22	KCA	6
1,4-Dioxane	ND	1.67	ND	6.02	08/10/22	KCA	6
2-Hexanone(MBK)	ND	1.47	ND	6.02	08/10/22	KCA	6
4-Ethyltoluene	ND	1.22	ND	5.99	08/10/22	KCA	6
4-Isopropyltoluene	ND	1.09	ND	5.98	08/10/22	KCA	6
4-Methyl-2-pentanone(MIBK)	ND	1.47	ND	6.02	08/10/22	KCA	6
Acetone	3.64	2.53	8.64	6.01	08/10/22	KCA	6
Acrylonitrile	ND	2.77	ND	6.01	08/10/22	KCA	6
Benzene	ND	1.88	ND	6.00	08/10/22	KCA	6
Benzyl chloride	ND	1.16	ND	6.00	08/10/22	KCA	6

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.896	ND	6.00	08/10/22	KCA	6	
Bromoform	ND	0.581	ND	6.00	08/10/22	KCA	6	
Bromomethane	ND	1.55	ND	6.01	08/10/22	KCA	6	
Carbon Disulfide	ND	1.93	ND	6.01	08/10/22	KCA	6	
Carbon Tetrachloride	ND	0.191	ND	1.20	08/10/22	KCA	6	
Chlorobenzene	ND	1.30	ND	5.98	08/10/22	KCA	6	
Chloroethane	ND	2.28	ND	6.01	08/10/22	KCA	6	
Chloroform	ND	1.23	ND	6.00	08/10/22	KCA	6	
Chloromethane	ND	2.91	ND	6.01	08/10/22	KCA	6	
Cis-1,2-Dichloroethene	54.0	0.303	214	1.20	08/10/22	KCA	6	
cis-1,3-Dichloropropene	ND	1.32	ND	5.99	08/10/22	KCA	6	
Cyclohexane	ND	1.74	ND	5.99	08/10/22	KCA	6	
Dibromochloromethane	ND	0.705	ND	6.00	08/10/22	KCA	6	
Dichlorodifluoromethane	ND	1.21	ND	5.98	08/10/22	KCA	6	
Ethanol	7.78	3.19	14.7	6.01	08/10/22	KCA	6	1
Ethyl acetate	ND	1.67	ND	6.01	08/10/22	KCA	6	1
Ethylbenzene	ND	1.38	ND	5.99	08/10/22	KCA	6	
Heptane	ND	1.47	ND	6.02	08/10/22	KCA	6	
Hexachlorobutadiene	ND	0.563	ND	6.00	08/10/22	KCA	6	
Hexane	ND	1.70	ND	5.99	08/10/22	KCA	6	
Isopropylalcohol	ND	2.44	ND	5.99	08/10/22	KCA	6	
Isopropylbenzene	ND	1.22	ND	5.99	08/10/22	KCA	6	
m,p-Xylene	ND	1.38	ND	5.99	08/10/22	KCA	6	
Methyl Ethyl Ketone	ND	2.04	ND	6.01	08/10/22	KCA	6	
Methyl tert-butyl ether(MTBE)	ND	1.67	ND	6.02	08/10/22	KCA	6	
Methylene Chloride	ND	5.18	ND	18.0	08/10/22	KCA	6	
n-Butylbenzene	ND	1.09	ND	5.98	08/10/22	KCA	6	1
o-Xylene	ND	1.38	ND	5.99	08/10/22	KCA	6	
Propylene	ND	3.49	ND	6.00	08/10/22	KCA	6	1
sec-Butylbenzene	ND	1.09	ND	5.98	08/10/22	KCA	6	1
Styrene	ND	1.41	ND	6.00	08/10/22	KCA	6	
Tetrachloroethene	3.12	0.221	21.1	1.50	08/10/22	KCA	6	
Tetrahydrofuran	ND	2.04	ND	6.01	08/10/22	KCA	6	1
Toluene	ND	1.59	ND	5.99	08/10/22	KCA	6	
Trans-1,2-Dichloroethene	ND	1.51	ND	5.98	08/10/22	KCA	6	
trans-1,3-Dichloropropene	ND	1.32	ND	5.99	08/10/22	KCA	6	
Trichloroethene	1.33	0.222	7.14	1.19	08/10/22	KCA	6	
Trichlorofluoromethane	ND	1.07	ND	6.01	08/10/22	KCA	6	
Trichlorotrifluoroethane	ND	0.783	ND	6.00	08/10/22	KCA	6	
Vinyl Chloride	ND	0.468	ND	1.20	08/10/22	KCA	6	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene (6x)	96	%	96	%	08/10/22	KCA	6	
% IS-1,4-Difluorobenzene (6x)	97	%	97	%	08/10/22	KCA	6	
% IS-Bromochloromethane (6x)	102	%	102	%	08/10/22	KCA	6	
% IS-Chlorobenzene-d5 (6x)	97	%	97	%	08/10/22	KCA	6	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 12, 2022

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

August 12, 2022

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 850

Custody Information

Collected by: JW
Received by: CP
Analyzed by: see "By" below

Date

08/08/22 13:31
08/09/22 15:41

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCM01044
Phoenix ID: CM01045

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	08/10/22	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	08/10/22	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	08/10/22	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	08/10/22	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	08/10/22	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	08/10/22	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	08/10/22	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	08/10/22	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	08/10/22	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	08/10/22	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	08/10/22	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	08/10/22	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	08/10/22	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	08/10/22	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	08/10/22	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	08/10/22	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	08/10/22	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	08/10/22	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	08/10/22	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	08/10/22	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	08/10/22	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	08/10/22	KCA	5
Acetone	6.94	2.11	16.5	5.01	08/10/22	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	08/10/22	KCA	5
Benzene	ND	1.57	ND	5.01	08/10/22	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	08/10/22	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	08/10/22	KCA	5	
Bromoform	ND	0.484	ND	5.00	08/10/22	KCA	5	
Bromomethane	ND	1.29	ND	5.01	08/10/22	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	08/10/22	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	08/10/22	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	08/10/22	KCA	5	
Chloroethane	ND	1.90	ND	5.01	08/10/22	KCA	5	
Chloroform	ND	1.02	ND	4.98	08/10/22	KCA	5	
Chloromethane	ND	2.42	ND	4.99	08/10/22	KCA	5	
Cis-1,2-Dichloroethene	34.1	0.252	135	1.00	08/10/22	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	08/10/22	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	08/10/22	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	08/10/22	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	08/10/22	KCA	5	
Ethanol	4.63	2.66	8.72	5.01	08/10/22	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	08/10/22	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	08/10/22	KCA	5	
Heptane	ND	1.22	ND	5.00	08/10/22	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	08/10/22	KCA	5	
Hexane	ND	1.42	ND	5.00	08/10/22	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	08/10/22	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	08/10/22	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	08/10/22	KCA	5	
Methyl Ethyl Ketone	2.19	1.70	6.45	5.01	08/10/22	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	08/10/22	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	08/10/22	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	08/10/22	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	08/10/22	KCA	5	
Propylene	ND	2.91	ND	5.01	08/10/22	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	08/10/22	KCA	5	1
Styrene	ND	1.17	ND	4.98	08/10/22	KCA	5	
Tetrachloroethene	1700	2.77	11500	18.8	08/10/22	KCA	75	
Tetrahydrofuran	ND	1.70	ND	5.01	08/10/22	KCA	5	1
Toluene	ND	1.33	ND	5.01	08/10/22	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	08/10/22	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	08/10/22	KCA	5	
Trichloroethene	136	0.185	730	0.99	08/10/22	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	08/10/22	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	08/10/22	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	08/10/22	KCA	5	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	94	%	94	%	08/10/22	KCA	5	
% IS-1,4-Difluorobenzene (5x)	92	%	92	%	08/10/22	KCA	5	
% IS-Bromochloromethane (5x)	96	%	96	%	08/10/22	KCA	5	
% IS-Chlorobenzene-d5 (5x)	103	%	103	%	08/10/22	KCA	5	
% Bromofluorobenzene (75x)	91	%	91	%	08/10/22	KCA	75	
% IS-1,4-Difluorobenzene (75x)	95	%	95	%	08/10/22	KCA	75	
% IS-Bromochloromethane (75x)	98	%	98	%	08/10/22	KCA	75	
% IS-Chlorobenzene-d5 (75x)	100	%	100	%	08/10/22	KCA	75	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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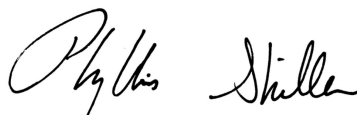
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 12, 2022

Reviewed and Released by: Ethan Lee, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

August 12, 2022

FOR: Attn: James Wilkinson
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Location Code: ENVIOTR

SDG I.D.: GCM01044

Project ID: ENSAFE-WESTBURY

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SVE EFFLUENT	CM01044	835	1.4L		08/03/22	-30	-20						08/08/22 13:25	08/08/22 13:26
SVE INFLUENT	CM01045	850	1.4L		08/03/22	-30	-3						08/08/22 13:30	08/08/22 13:31



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QA/QC Report

August 12, 2022

QA/QC Data

SDG I.D.: GCM01044

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 636825 (ppbv), QC Sample No: CM00502 (CM01044 (6X) , CM01045 (5X, 75X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.250	ND	1.72	93	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.005	ND	0.03	85	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.010	ND	0.05	93	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	96	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.100	ND	0.40	98	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.027	ND	0.20	125	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.250	ND	1.23	94	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.005	ND	0.04	91	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	84	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	96	0.12	0.11	0.030	0.028	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	92	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.250	ND	1.75	98	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.250	ND	1.23	91	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.250	ND	0.55	98	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	88	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	89	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.065	ND	0.23	87	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.250	ND	1.02	96	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.250	ND	1.23	94	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.250	ND	1.37	92	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.250	ND	1.02	95	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.375	ND	0.89	94	15.5	15.7	6.51	6.63	1.8	70 - 130	25
Acrylonitrile	ND	0.250	ND	0.54	98	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.100	ND	0.32	96	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.250	ND	1.29	92	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	95	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	88	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	94	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.250	ND	0.78	96	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	98	0.45	0.45	0.071	0.072	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	90	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	92	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	95	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	96	1.14	1.08	0.550	0.523	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	103	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	97	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.250	ND	0.86	93	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	90	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	97	2.32	2.44	0.469	0.494	NC	70 - 130	25
Ethanol	ND	0.375	ND	0.71	110	465 E	469	247 E	249	0.8	70 - 130	25

QA/QC Data

SDG I.D.: GCM01044

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.250	ND	0.90	87	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	93	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.250	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.005	ND	0.05	115	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.225	ND	0.79	100	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.375	ND	0.92	97	8.97	9.06	3.65	3.69	1.1	70 - 130	25
Isopropylbenzene	ND	0.250	ND	1.23	93	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.500	ND	2.17	97	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.225	ND	0.66	96	1.44	1.41	0.489	0.480	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.250	ND	0.90	96	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	90	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.250	ND	1.37	93	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.250	ND	1.08	94	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.250	ND	0.43	96	ND	1.19	ND	0.689	NC	70 - 130	25
sec-Butylbenzene	ND	0.250	ND	1.37	93	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.100	ND	0.43	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	91	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.250	ND	0.74	97	0.78	0.79	0.265	0.267	NC	70 - 130	25
Toluene	ND	0.250	ND	0.94	96	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	95	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	94	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	92	0.82	0.87	0.152	0.162	6.4	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	94	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	95	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.050	ND	0.13	98	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	91	%	91	%	100	96	98	96	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	105	%	105	%	112	101	98	101	98	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	106	100	99	100	99	NC	60 - 140	25
% IS-Chlorobenzene-d5	105	%	105	%	120	101	97	101	97	NC	60 - 140	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
August 12, 2022

Friday, August 12, 2022

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCM01044 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

August 12, 2022

SDG I.D.: GCM01044

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

