

March 10, 2021

Ms. Kerry Maloney, P.G.
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Via email: Kerry.maloney@dec.ny.gov

Re: Progress Report: February 2021
Frost Street Sites: Site ID#s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Ms. Maloney:

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 February 2021 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).
 - The system upgrades, including the control panel and new compressor, began operation on February 23, 2021.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on February 26, 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 [19,515 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	February 2021 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	ND
Tetrachloroethene	1,000	38,000	ND
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	ND

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.

- System condensate water was discharged from the holding tank to the sewer via the onsite connection (February 26 – 550 gallons). All water is treated via activate carbon adsorption prior to discharge. Groundwater concentrations did not exceed applicable limits (1 part per million total volatile organic compounds), as shown in Appendix C.

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 February except approximately one hour on the morning of February 17.

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 first quarter 2021 groundwater sampling event was performed the week of February 8; 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. Vasquez, U.S. EPA	<i>Via email to vazquez.julio@epa.gov</i>
	T. Pupilla, Sanders Equities	<i>Via email to tpupilla@sandersequities.com</i>
	K. Maldonado, Esq.	<i>Via email to kevinmaldonado64@yahoo.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: 12-Feb
Weather / Temp: Clear / 30 DEG
Technician / Operator: JW

Arrival Time: 9:30
Departure Time: 10:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4300		844		Blower 1 Total Runtime (hrs)	60,371.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	61,024.0			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Influent PID (ppm)	8.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Influent PID (ppm)	8.0			
VGAC-2 Effluent Vacuum ("H2O)	54				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Prerssure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	135				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	10								
Transfer Pump Total Runtime (hrs)	25,043.0				Condensate Storage Tank Level (gal)	350			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	54	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	46	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	56	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	46	3200	70	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	47	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	46	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	45	3100	68	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	92			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	151			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	40,621			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	20		6		AS-11 (psi)/(cfm)	19		13	
AS-2 (psi)/(cfm)	20		6		AS-12B (psi)/(cfm)	21		4	
AS-3 (psi)/(cfm)	OFF		OFF		AS-13B (psi)/(cfm)	19		4	
AS-4 (psi)/(cfm)	15		4		AS-14 (psi)/(cfm)	19		7	
AS-5 (psi)/(cfm)	17		5		AS-15 (psi)/(cfm)	20		8	
AS-6 (psi)/(cfm)	22		6		AS-16B (psi)/(cfm)	19		7	
AS-7 (psi)/(cfm)	21		10		AS-17 (psi)/(cfm)	20		5	
AS-8 (psi)/(cfm)	21		10		AS-18 (psi)/(cfm)	20		10	
AS-9 (psi)/(cfm)	20		8		AS-19 (psi)/(cfm)	19		15	
AS-10B (psi)/(cfm)	20		4						

Notes, Comments & Observations:

Well AS-3 shut off due to crack in manifold pipe.

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: 12-Feb
Weather / Temp: Clear / 30 DEG
Technician / Operator: JW

Arrival Time: 9:30
Departure Time: 10:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-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	N	Off for repairs.
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	
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: 26-Feb
Weather / Temp: Clear / 30 DEG
Technician / Operator: JW

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

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)	4300		844		Blower 1 Total Runtime (hrs)	60,459.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	61,102.2			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	63.8				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				VGAC-1 Influent PID (ppm)	12.0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-2 Influent PID (ppm)	12.0			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-2 Effluent Vacuum ("H2O)	53				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Prerssure ("H2O)	2				Blower Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	138				Transfer Pump Total Runtime (hrs)	25,043.6			
Blower Effluent Pressure ("H2O)	10				Condensate Storage Tank Level (gal)	550 -> 0			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	54	7800	170	9.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	45	4300	94	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4800	105	22.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	45	3200	70	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	5200	113	4.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153	0.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	45	4400	96	2.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	45	3200	70	43.0
Air Sparge System									
Compressor 1 Pressure (psi)	14				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	52.7				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	190				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	55				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	16.5				AS Manifold Temperature (degF)	52			
Air Cooler Outlet Pressure (psi)	15.5				AS Manifold Pressure	13			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/cfm)	17		6		AS-11 (psi)/cfm)	16		5	
AS-2 (psi)/cfm)	17		6		AS-12B (psi)/cfm)	17		15	
AS-3 (psi)/cfm)	15		10		AS-13B (psi)/cfm)	15		14	
AS-4 (psi)/cfm)	17		4		AS-14 (psi)/cfm)	16		14	
AS-5 (psi)/cfm)	15		8		AS-15 (psi)/cfm)	15		8	
AS-6 (psi)/cfm)	17		10		AS-16B (psi)/cfm)	15		10	
AS-7 (psi)/cfm)	18		10		AS-17 (psi)/cfm)	17		15	
AS-8 (psi)/cfm)	16		12		AS-18 (psi)/cfm)	16		13	
AS-9 (psi)/cfm)	17		10		AS-19 (psi)/cfm)	15		10	
AS-10B (psi)/cfm)	15		15						

Notes, Comments & Observations:

New rotary claw pump compressor C-1 started operating on 2/23.

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: 26-Feb
Weather / Temp: Clear / 30 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	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-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	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	Y	
-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, March 05, 2021

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

Project ID: ENSAFE-WESTBURY
SDG ID: GCH70587
Sample ID#s: CH70587 - CH70588

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
UT Lab Registration #CT00007
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

March 05, 2021

SDG I.D.: GCH70587

Project ID: ENSAFE-WESTBURY

Client Id	Lab Id	Matrix
SVE INFLUENT	CH70587	AIR
SVE EFFLUENT	CH70588	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

March 05, 2021

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: 743

Custody Information

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

Date

02/26/21 10:06
03/02/21 15:09

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCH70587
Phoenix ID: CH70587

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	1.46	ND	10.0	03/02/21	KCA	10
1,1,1-Trichloroethane	ND	1.83	ND	10.0	03/02/21	KCA	10
1,1,2,2-Tetrachloroethane	ND	1.46	ND	10.0	03/02/21	KCA	10
1,1,2-Trichloroethane	ND	1.83	ND	10.0	03/02/21	KCA	10
1,1-Dichloroethane	ND	2.47	ND	10.0	03/02/21	KCA	10
1,1-Dichloroethene	ND	0.505	ND	2.00	03/02/21	KCA	10
1,2,4-Trichlorobenzene	ND	1.35	ND	10.0	03/02/21	KCA	10
1,2,4-Trimethylbenzene	ND	2.04	ND	10.0	03/02/21	KCA	10
1,2-Dibromoethane(EDB)	ND	1.30	ND	10.0	03/02/21	KCA	10
1,2-Dichlorobenzene	ND	1.66	ND	10.0	03/02/21	KCA	10
1,2-Dichloroethane	ND	2.47	ND	10.0	03/02/21	KCA	10
1,2-dichloropropane	ND	2.17	ND	10.0	03/02/21	KCA	10
1,2-Dichlorotetrafluoroethane	ND	1.43	ND	10.0	03/02/21	KCA	10
1,3,5-Trimethylbenzene	ND	2.04	ND	10.0	03/02/21	KCA	10
1,3-Butadiene	ND	4.52	ND	10.0	03/02/21	KCA	10
1,3-Dichlorobenzene	ND	1.66	ND	10.0	03/02/21	KCA	10
1,4-Dichlorobenzene	ND	1.66	ND	10.0	03/02/21	KCA	10
1,4-Dioxane	ND	2.78	ND	10.0	03/02/21	KCA	10
2-Hexanone(MBK)	ND	2.44	ND	10.0	03/02/21	KCA	10
4-Ethyltoluene	ND	2.04	ND	10.0	03/02/21	KCA	10
4-Isopropyltoluene	ND	1.82	ND	10.0	03/02/21	KCA	10
4-Methyl-2-pentanone(MIBK)	ND	2.44	ND	10.0	03/02/21	KCA	10
Acetone	ND	4.21	ND	10.0	03/02/21	KCA	10
Acrylonitrile	ND	4.61	ND	10.0	03/02/21	KCA	10
Benzene	ND	3.13	ND	10.0	03/02/21	KCA	10
Benzyl chloride	ND	1.93	ND	10.0	03/02/21	KCA	10

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	1.49	ND	10.0	03/02/21	KCA	10	
Bromoform	ND	0.968	ND	10.0	03/02/21	KCA	10	
Bromomethane	ND	2.58	ND	10.0	03/02/21	KCA	10	
Carbon Disulfide	ND	3.21	ND	10.0	03/02/21	KCA	10	
Carbon Tetrachloride	ND	0.318	ND	2.00	03/02/21	KCA	10	
Chlorobenzene	ND	2.17	ND	10.0	03/02/21	KCA	10	
Chloroethane	ND	3.79	ND	10.0	03/02/21	KCA	10	
Chloroform	ND	2.05	ND	10.0	03/02/21	KCA	10	
Chloromethane	ND	4.85	ND	10.0	03/02/21	KCA	10	
Cis-1,2-Dichloroethene	193	0.505	765	2.00	03/02/21	KCA	10	
cis-1,3-Dichloropropene	ND	2.20	ND	10.0	03/02/21	KCA	10	
Cyclohexane	ND	2.91	ND	10.0	03/02/21	KCA	10	
Dibromochloromethane	ND	1.17	ND	10.0	03/02/21	KCA	10	
Dichlorodifluoromethane	ND	2.02	ND	10.0	03/02/21	KCA	10	
Ethanol	6.95	5.31	13.1	10.0	03/02/21	KCA	10	1
Ethyl acetate	ND	2.78	ND	10.0	03/02/21	KCA	10	1
Ethylbenzene	ND	2.30	ND	10.0	03/02/21	KCA	10	
Heptane	ND	2.44	ND	10.0	03/02/21	KCA	10	
Hexachlorobutadiene	ND	0.938	ND	10.0	03/02/21	KCA	10	
Hexane	ND	2.84	ND	10.0	03/02/21	KCA	10	
Isopropylalcohol	ND	4.07	ND	10.0	03/02/21	KCA	10	
Isopropylbenzene	ND	2.04	ND	10.0	03/02/21	KCA	10	
m,p-Xylene	ND	2.30	ND	10.0	03/02/21	KCA	10	
Methyl Ethyl Ketone	ND	3.39	ND	10.0	03/02/21	KCA	10	
Methyl tert-butyl ether(MTBE)	ND	2.78	ND	10.0	03/02/21	KCA	10	
Methylene Chloride	ND	8.64	ND	30.0	03/02/21	KCA	10	
n-Butylbenzene	ND	1.82	ND	10.0	03/02/21	KCA	10	1
o-Xylene	ND	2.30	ND	10.0	03/02/21	KCA	10	
Propylene	ND	5.81	ND	10.0	03/02/21	KCA	10	1
sec-Butylbenzene	ND	1.82	ND	10.0	03/02/21	KCA	10	1
Styrene	ND	2.35	ND	10.0	03/02/21	KCA	10	
Tetrachloroethene	2570	11.1	17400	75.2	03/04/21	KCA	300	
Tetrahydrofuran	ND	3.39	ND	10.0	03/02/21	KCA	10	1
Toluene	ND	2.66	ND	10.0	03/02/21	KCA	10	
Trans-1,2-Dichloroethene	ND	2.52	ND	10.0	03/02/21	KCA	10	
trans-1,3-Dichloropropene	ND	2.20	ND	10.0	03/02/21	KCA	10	
Trichloroethene	252	0.372	1350	2.00	03/02/21	KCA	10	
Trichlorofluoromethane	ND	1.78	ND	10.0	03/02/21	KCA	10	
Trichlorotrifluoroethane	ND	1.31	ND	10.0	03/02/21	KCA	10	
Vinyl Chloride	ND	0.783	ND	2.00	03/02/21	KCA	10	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (10x)	99	%	99	%	03/02/21	KCA	10	
% IS-1,4-Difluorobenzene (10x)	92	%	92	%	03/02/21	KCA	10	
% IS-Bromochloromethane (10x)	92	%	92	%	03/02/21	KCA	10	
% IS-Chlorobenzene-d5 (10x)	91	%	91	%	03/02/21	KCA	10	
% Bromofluorobenzene (75x)	98	%	98	%	03/03/21	KCA	75	
% IS-1,4-Difluorobenzene (75x)	115	%	115	%	03/03/21	KCA	75	
% IS-Bromochloromethane (75x)	113	%	113	%	03/03/21	KCA	75	
% IS-Chlorobenzene-d5 (75x)	115	%	115	%	03/03/21	KCA	75	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
% Bromofluorobenzene (300x)	97	%	97	%	03/04/21	KCA	300
% IS-1,4-Difluorobenzene (300x)	111	%	111	%	03/04/21	KCA	300
% IS-Bromochloromethane (300x)	108	%	108	%	03/04/21	KCA	300
% IS-Chlorobenzene-d5 (300x)	108	%	108	%	03/04/21	KCA	300

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

March 05, 2021

Reviewed and Released by: Rashmi Makol, 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

March 05, 2021

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: 751

Custody Information

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

Date

02/26/21 10:01
03/02/21 15:09

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Laboratory Data

SDG ID: GCH70587
Phoenix ID: CH70588

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	03/03/21	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	03/03/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	03/03/21	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	03/03/21	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	03/03/21	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	03/03/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	03/03/21	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	03/03/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	03/03/21	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	03/03/21	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	03/03/21	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	03/03/21	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	03/03/21	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	03/03/21	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	03/03/21	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	03/03/21	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	03/03/21	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	03/03/21	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	03/03/21	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	03/03/21	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	03/03/21	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	03/03/21	KCA	1
Acetone	1.30	0.421	3.09	1.00	03/03/21	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	03/03/21	KCA	1
Benzene	ND	0.313	ND	1.00	03/03/21	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	03/03/21	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	03/03/21	KCA	1
Bromoform	ND	0.097	ND	1.00	03/03/21	KCA	1
Bromomethane	ND	0.258	ND	1.00	03/03/21	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	03/03/21	KCA	1
Carbon Tetrachloride	0.064	0.032	0.40	0.20	03/03/21	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	03/03/21	KCA	1
Chloroethane	ND	0.379	ND	1.00	03/03/21	KCA	1
Chloroform	ND	0.205	ND	1.00	03/03/21	KCA	1
Chloromethane	ND	0.485	ND	1.00	03/03/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	ND	0.20	03/03/21	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	03/03/21	KCA	1
Cyclohexane	ND	0.291	ND	1.00	03/03/21	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	03/03/21	KCA	1
Dichlorodifluoromethane	0.364	0.202	1.80	1.00	03/03/21	KCA	1
Ethanol	3.99	0.531	7.51	1.00	03/03/21	KCA	1 1
Ethyl acetate	ND	0.278	ND	1.00	03/03/21	KCA	1 1
Ethylbenzene	ND	0.230	ND	1.00	03/03/21	KCA	1
Heptane	ND	0.244	ND	1.00	03/03/21	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	03/03/21	KCA	1
Hexane	0.946	0.284	3.33	1.00	03/03/21	KCA	1
Isopropylalcohol	0.542	0.407	1.33	1.00	03/03/21	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	03/03/21	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	03/03/21	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	03/03/21	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	03/03/21	KCA	1
Methylene Chloride	3.17	0.864	11.0	3.00	03/03/21	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	03/03/21	KCA	1 1
o-Xylene	ND	0.230	ND	1.00	03/03/21	KCA	1
Propylene	ND	0.581	ND	1.00	03/03/21	KCA	1 1
sec-Butylbenzene	ND	0.182	ND	1.00	03/03/21	KCA	1 1
Styrene	ND	0.235	ND	1.00	03/03/21	KCA	1
Tetrachloroethene	ND	0.037	ND	0.25	03/03/21	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	03/03/21	KCA	1 1
Toluene	ND	0.266	ND	1.00	03/03/21	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	03/03/21	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	03/03/21	KCA	1
Trichloroethene	ND	0.037	ND	0.20	03/03/21	KCA	1
Trichlorofluoromethane	ND	0.178	ND	1.00	03/03/21	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	03/03/21	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	03/03/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	98	%	98	%	03/03/21	KCA	1
% IS-1,4-Difluorobenzene	123	%	123	%	03/03/21	KCA	1
% IS-Bromochloromethane	119	%	119	%	03/03/21	KCA	1
% IS-Chlorobenzene-d5	121	%	121	%	03/03/21	KCA	1

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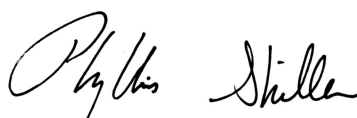
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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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

March 05, 2021

Reviewed and Released by: Rashmi Makol, 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

March 05, 2021

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

Location Code: ENVIOTR

SDG I.D.: GCH70587

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 INFLUENT	CH70587	743	1.4L		02/18/21	-30	-4		B SAM				02/26/21 10:05	02/26/21 10:06
SVE EFFLUENT	CH70588	751	1.4L		02/18/21	-30	0		B SAM				02/26/21 10:00	02/26/21 10:01



Environmental Laboratories, Inc.
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QA/QC Report

March 05, 2021

QA/QC Data

SDG I.D.: GCH70587

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 565303 (ppbv), QC Sample No: CH69967 (CH70587 (10X, 75X) , CH70588)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43	106	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	109	4.92	4.90	0.902	0.898	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.020	ND	0.11	108	0.14	0.15	0.026	0.028	NC	70 - 130	25
1,1-Dichloroethane	ND	0.150	ND	0.61	108	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.200	ND	0.79	113	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.054	ND	0.40	106	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	114	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	110	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.100	ND	0.60	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.020	ND	0.08	114	0.08	ND	0.020	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.020	ND	0.09	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	89	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	113	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.500	ND	1.11	108	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.100	ND	0.60	109	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.080	ND	0.48	109	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.130	ND	0.47	96	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	109	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	114	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.500	ND	2.74	111	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.500	ND	2.05	117	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.750	ND	1.78	102	6.05	6.31	2.55	2.66	NC	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	114	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.200	ND	0.64	104	0.90	0.89	0.283	0.279	NC	70 - 130	25
Benzyl chloride	ND	0.500	ND	2.59	97	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.020	ND	0.13	113	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.150	ND	1.55	119	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.140	ND	0.54	107	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.500	ND	1.56	106	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.086	ND	0.54	110	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	106	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	107	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	107	1.06	1.01	0.218	0.208	NC	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	119	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	119	157	159	39.5	40.1	1.5	70 - 130	25
cis-1,3-Dichloropropene	ND	0.100	ND	0.45	115	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	111	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.020	ND	0.17	114	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	106	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.750	ND	1.41	129	32.8	33.0	17.4	17.5	0.6	70 - 130	25

QA/QC Data

SDG I.D.: GCH70587

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	0.500	ND	1.80	131	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.500	ND	2.17	108	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.500	ND	2.05	114	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.020	ND	0.21	101	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.450	ND	1.59	114	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.750	ND	1.84	112	3.32	5.50	1.35	2.24	NC	70 - 130	25
Isopropylbenzene	ND	0.500	ND	2.46	107	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	1.00	ND	4.34	113	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.450	ND	1.33	110	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.500	ND	1.80	110	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	3.00	ND	10.4	112	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.500	ND	2.74	112	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.500	ND	2.17	112	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.500	ND	0.86	113	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.500	ND	2.74	109	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.200	ND	0.85	113	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	107	34.3	34.2	5.06	5.05	0.2	70 - 130	25
Tetrahydrofuran	ND	0.500	ND	1.47	109	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.500	ND	1.88	109	3.92	3.92	1.04	1.04	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	108	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.500	ND	2.27	109	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.050	ND	0.27	110	1120	1110	208	207	0.5	70 - 130	25
Trichlorofluoromethane	ND	0.500	ND	2.81	113	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.500	ND	3.83	109	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.100	ND	0.26	111	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	97	%	97	%	100	99	98	99	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	100	101	101	101	101	NC	60 - 140	25
% IS-Bromochloromethane	99	%	99	%	100	100	100	100	100	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	102	99	100	99	100	NC	60 - 140	25

QA/QC Batch 565511 (ppbv), QC Sample No: CH71727 (CH70587 (300X))

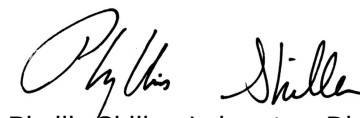
Volatiles

Tetrachloroethene	ND	0.037	ND	0.25	103	0.68	0.66	0.100	0.097	NC	70 - 130	25
% Bromofluorobenzene	97	%	97	%	103	100	99	100	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	109	%	109	%	110	101	101	101	101	NC	60 - 140	25
% IS-Bromochloromethane	109	%	109	%	108	101	100	101	100	NC	60 - 140	25
% IS-Chlorobenzene-d5	106	%	106	%	120	100	102	100	102	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

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
 March 05, 2021

Friday, March 05, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH70587 - 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.



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



Analysis Comments

March 05, 2021

SDG I.D.: GCH70587

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

Appendix C
Water Sample
Laboratory Analytical Results



Tuesday, March 02, 2021

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

Project ID: FROST STREET OU1
SDG ID: GCH66772
Sample ID#s: CH66772

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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

March 02, 2021

SDG I.D.: GCH66772

Project ID: FROST STREET OU1

Client Id	Lab Id	Matrix
SVE DISCHARGE WATER	CH66772	GW DISCHARGE



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Analysis Report

March 02, 2021

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

Sample Information

Matrix: GW DISCHARGE
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

02/23/21
02/23/21

Time

9:30
14:00

Laboratory Data

SDG ID: GCH66772
Phoenix ID: CH66772

Project ID: FROST STREET OU1
Client ID: SVE DISCHARGE WATER

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Cadmium	< 0.001	0.001		mg/L	1	02/25/21	TH	E200.7
Chromium	< 0.001	0.001		mg/L	1	02/25/21	TH	E200.7
Copper	< 0.003	0.003		mg/L	1	02/25/21	TH	E200.7
Iron	0.069	0.005		mg/L	1	02/25/21	TH	E200.7
Nickel	0.003	0.001		mg/L	1	02/25/21	TH	E200.7
Zinc	0.783	0.002		mg/L	1	02/25/21	TH	E200.7
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	02/23/21 16:32	MW	SM3500CRB-11
Total Metals Digestion	Completed					02/24/21	AG	

Volatiles

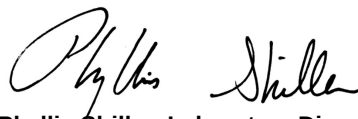
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	02/23/21	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
cis-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/23/21	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	02/23/21	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	02/23/21	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	02/23/21	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	02/23/21	MH	E624.1
Tetrachloroethene	0.77	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Toluene	0.30	J 0.50	0.25	ug/L	1	02/23/21	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/23/21	MH	E624.1
Trichloroethene	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	02/23/21	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	101			%	1	02/23/21	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	02/23/21	MH	70 - 130 %
% Dibromofluoromethane	107			%	1	02/23/21	MH	70 - 130 %
% Toluene-d8	100			%	1	02/23/21	MH	70 - 130 %

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 J=Estimated Below RL LOD=Limit of Detection MDL=Method Detection Limit
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.
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Phyllis Shiller, Laboratory Director

March 02, 2021

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



QA/QC Report

March 02, 2021

QA/QC Data

SDG I.D.: GCH66772

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 564484 (mg/L), QC Sample No: CH67557 (CH66772)													
<u>ICP Metals - Aqueous</u>													
Cadmium	BRL	0.0005	<0.001	<0.0005	NC	98.9	103	4.1	91.6			80 - 120	20
Chromium	BRL	0.0005	<0.001	<0.0005	NC	98.1	102	3.9	93.6			80 - 120	20
Copper	BRL	0.0025	0.040	0.0396	1.00	96.2	100	3.9	98.1			80 - 120	20
Iron	BRL	0.0050	0.094	0.0922	1.90	102	104	1.9	91.0			80 - 120	20
Nickel	BRL	0.0005	0.003	0.0028	NC	98.0	101	3.0	92.0			80 - 120	20
Zinc	BRL	0.0020	0.029	0.0287	1.00	95.4	98.7	3.4	92.2			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

March 02, 2021

QA/QC Data

SDG I.D.: GCH66772

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 564344 (mg/L), QC Sample No: CH66772 (CH66772)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	96.0			101			90 - 110	20
Comment:													
Additional Hexavalent Chromium criteria: LCS acceptance range for waters is 90-110% and MS acceptance range is 85-115%.													



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QA/QC Report

March 02, 2021

QA/QC Data

SDG I.D.: GCH66772

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 564457 (ug/L), QC Sample No: CH66994 (CH66772)										
Volatiles										
1,1,1-Trichloroethane	ND	1.0	105	102	2.9	100	102	2.0	75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	102	104	1.9	98	105	6.9	60 - 140	20
1,1,2-Trichloroethane	ND	1.0	99	95	4.1	95	97	2.1	71 - 129	20
1,1-Dichloroethane	ND	1.0	108	102	5.7	98	101	3.0	72 - 128	20
1,1-Dichloroethene	ND	1.0	106	106	0.0	101	101	0.0	50 - 150	20
1,2-Dichlorobenzene	ND	1.0	101	100	1.0	97	102	5.0	63 - 137	20
1,2-Dichloroethane	ND	1.0	100	94	6.2	95	97	2.1	68 - 132	20
1,2-Dichloropropane	ND	1.0	101	97	4.0	96	98	2.1	40 - 160	20
1,3-Dichlorobenzene	ND	1.0	101	101	0.0	98	102	4.0	73 - 127	20
1,4-Dichlorobenzene	ND	1.0	100	98	2.0	94	101	7.2	63 - 137	20
Benzene	ND	0.70	103	98	5.0	97	98	1.0	64 - 136	20
Bromodichloromethane	ND	0.50	103	99	4.0	97	101	4.0	65 - 135	20
Bromoform	ND	1.0	101	98	3.0	96	99	3.1	71 - 129	20
Bromomethane	ND	1.0	99	97	2.0	88	94	6.6	40 - 160	20
Carbon tetrachloride	ND	1.0	114	97	16.1	95	109	13.7	73 - 127	20
Chlorobenzene	ND	1.0	102	97	5.0	96	99	3.1	66 - 134	20
Chloroethane	ND	1.0	95	92	3.2	86	91	5.6	40 - 160	20
Chloroform	ND	1.0	104	99	4.9	99	100	1.0	67 - 133	20
Chloromethane	ND	1.0	101	95	6.1	85	94	10.1	40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	99	95	4.1	92	92	0.0	69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	100	97	3.0	94	97	3.1	40 - 160	20
Dibromochloromethane	ND	0.50	105	99	5.9	100	103	3.0	67 - 133	20
Ethylbenzene	ND	1.0	104	100	3.9	97	101	4.0	59 - 141	20
m&p-Xylene	ND	1.0	105	101	3.9	100	102	2.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	109	107	1.9	102	107	4.8	70 - 130	30
Methylene chloride	ND	1.0	96	95	1.0	91	95	4.3	60 - 140	20
Naphthalene	ND	1.0	109	107	1.9	98	106	7.8	70 - 130	30
o-Xylene	ND	1.0	107	103	3.8	100	104	3.9	70 - 130	30
Tetrachloroethene	ND	1.0	102	97	5.0	97	99	2.0	73 - 127	20
Toluene	ND	1.0	104	100	3.9	97	100	3.0	74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	111	108	2.7	102	106	3.8	69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	94	90	4.3	88	92	4.4	50 - 150	20
Trichloroethene	ND	1.0	99	96	3.1	93	95	2.1	66 - 134	20
Trichlorofluoromethane	ND	1.0	100	100	0.0	98	100	2.0	48 - 152	20
Vinyl chloride	ND	1.0	105	100	4.9	92	98	6.3	40 - 160	20
% 1,2-dichlorobenzene-d4	99	%	100	101	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	97	%	99	98	1.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	107	%	104	104	0.0	102	104	1.9	70 - 130	30
% Toluene-d8	99	%	101	100	1.0	100	99	1.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Data

SDG I.D.: GCH66772

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
		RL								

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
March 02, 2021

Tuesday, March 02, 2021

Criteria: None
State: NJ

Sample Criteria Exceedances Report
GCH66772 - 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

March 02, 2021

SDG I.D.: GCH66772

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

