

March 10, 2023

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: February 2023
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 February 2023 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 February, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on February 17 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 [18,533 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 2023 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	4.83
Tetrachloroethene	1,000	38,000	95.6
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	1.68

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 17 – 300 gallons). Water is treated via activate carbon adsorption prior to discharge and 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. To date, over 344 million gallons of water have been removed by this system.

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.

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
Ensae-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: 17-Feb
Weather / Temp: Rain / 45 DEG
Technician / Operator: JW

Arrival Time: 12:30
Departure Time: 13:30

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)	4000		785		Blower 1 Total Runtime (hrs)	69,254.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	68,575.1			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Blower Inlet Vacuum ("H2O)	59				Blower 2 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				VGAC-1 Influent PID (ppm)	1.0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-1 Effluent Vacuum ("H2O)	46				VGAC-2 Influent PID (ppm)	1.0			
VGAC-2 Influent Vacuum ("H2O)	46				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-2 Effluent Vacuum ("H2O)	46				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	5				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				Blower Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	136				Transfer Pump Total Runtime (hrs)	25,096.7			
Blower Effluent Pressure ("H2O)	16				Condensate Storage Tank Level (gal)	500 → 200			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7000	153	0.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4200	92	0.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	54	2900	63	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	4900	107	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	49	6500	142	4.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	2800	61	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	12				Compressor 2 Pressure (psi)	Off			
Compressor 1 Runtime (hrs)	16,003.8				Compressor 2 Temperature (degF)	Off			
Air Cooler Inlet Temperature (degF)	195				Compressor 2 Regulator Pressure (psi)	Off			
Air Cooler Outlet Temperature (degF)	74				Compressor 2 Runtime (hrs)	40,734			
Air Cooler Inlet Pressure (psi)	16.5				AS Manifold Temperature (degF)	70			
Air Cooler Outlet Pressure (psi)	14.5				AS Manifold Pressure	13			
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	7.5	10	AS-11 (psi)/(cfm)	15	4				
AS-2 (psi)/(cfm)	0	10	AS-12B (psi)/(cfm)	16	11				
AS-3 (psi)/(cfm)	0	10	AS-13B (psi)/(cfm)	15	12				
AS-4 (psi)/(cfm)	13	0	AS-14 (psi)/(cfm)	16	15				
AS-5 (psi)/(cfm)	16	10	AS-15 (psi)/(cfm)	15	11				
AS-6 (psi)/(cfm)	16	12	AS-16B (psi)/(cfm)	15	11				
AS-7 (psi)/(cfm)	17	9	AS-17 (psi)/(cfm)	15	12				
AS-8 (psi)/(cfm)	13	11	AS-18 (psi)/(cfm)	15	11				
AS-9 (psi)/(cfm)	16	11	AS-19 (psi)/(cfm)	15	7				
AS-10B (psi)/(cfm)	15	10							

Notes, Comments & Observations:

Discharged additional 450 gallons of water on 2/28.

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: 17-Feb
Weather / Temp: Rain / 45 DEG
Technician / Operator: JW

Arrival Time: 12:30
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 11/1/22
-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 11/1/22
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Oil changed on 1/31/23
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	Y	26 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



Wednesday, February 22, 2023

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

Project ID: FROST ST. 001
SDG ID: GCN45901
Sample ID#s: CN45901 - CN45902

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

February 22, 2023

SDG I.D.: GCN45901

Project ID: FROST ST. 001

Client Id	Lab Id	Matrix
SVE EFFLUENT	CN45901	AIR
SVE INFLUENT	CN45902	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

February 22, 2023

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: 745

Custody Information

Collected by: JW
Received by: SR1
Analyzed by: see "By" below

Date

02/17/23
02/20/23

Time

13:11
15:35

Laboratory Data

SDG ID: GCN45901
Phoenix ID: CN45901

Project ID: FROST ST. 001
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	0.729	ND	5.00	02/21/23	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	02/21/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	02/21/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	02/21/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	02/21/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	02/21/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	02/21/23	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	02/21/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	02/21/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	02/21/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	02/21/23	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	02/21/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	02/21/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	02/21/23	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	02/21/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	02/21/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	02/21/23	KCA	5
Acetone	5.38	2.11	12.8	5.01	02/21/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	02/21/23	KCA	5
Benzene	3.68	1.57	11.7	5.01	02/21/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	02/21/23	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	02/21/23	KCA	5	
Bromoform	ND	0.484	ND	5.00	02/21/23	KCA	5	
Bromomethane	ND	1.29	ND	5.01	02/21/23	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	02/21/23	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	02/21/23	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	02/21/23	KCA	5	
Chloroethane	ND	1.90	ND	5.01	02/21/23	KCA	5	
Chloroform	ND	1.02	ND	4.98	02/21/23	KCA	5	
Chloromethane	ND	2.42	ND	4.99	02/21/23	KCA	5	
Cis-1,2-Dichloroethene	0.425	0.252	1.68	1.00	02/21/23	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	02/21/23	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	02/21/23	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	02/21/23	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	02/21/23	KCA	5	
Ethanol	32.5	2.66	61.2	5.01	02/21/23	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	02/21/23	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Heptane	ND	1.22	ND	5.00	02/21/23	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	02/21/23	KCA	5	
Hexane	ND	1.42	ND	5.00	02/21/23	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	02/21/23	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	02/21/23	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	02/21/23	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	02/21/23	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	02/21/23	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Propylene	ND	2.91	ND	5.01	02/21/23	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	02/21/23	KCA	5	1
Styrene	ND	1.17	ND	4.98	02/21/23	KCA	5	
Tetrachloroethene	14.1	0.184	95.6	1.25	02/21/23	KCA	5	
Tetrahydrofuran	ND	1.70	ND	5.01	02/21/23	KCA	5	1
Toluene	ND	1.33	ND	5.01	02/21/23	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	02/21/23	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	02/21/23	KCA	5	
Trichloroethene	0.900	0.185	4.83	0.99	02/21/23	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	02/21/23	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	02/21/23	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	02/21/23	KCA	5	
<u>QA/OC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	103	%	103	%	02/21/23	KCA	5	
% IS-1,4-Difluorobenzene (5x)	88	%	88	%	02/21/23	KCA	5	
% IS-Bromochloromethane (5x)	90	%	90	%	02/21/23	KCA	5	
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	02/21/23	KCA	5	

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

February 22, 2023

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

February 22, 2023

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: 820

Custody Information

Collected by: JW
Received by: SR1
Analyzed by: see "By" below

Date

02/17/23
02/20/23

Time

13:16
15:35

Project ID: FROST ST. 001
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCN45901
Phoenix ID: CN45902

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
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1,1,1-Trichloroethane	ND	0.917	ND	5.00	02/21/23	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	02/21/23	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	02/21/23	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	02/21/23	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	02/21/23	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	02/21/23	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	02/21/23	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	02/21/23	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	02/21/23	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	02/21/23	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	02/21/23	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	02/21/23	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	02/21/23	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	02/21/23	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	02/21/23	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	02/21/23	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	02/21/23	KCA	5
Acetone	4.19	2.11	9.9	5.01	02/21/23	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	02/21/23	KCA	5
Benzene	ND	1.57	ND	5.01	02/21/23	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	02/21/23	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	02/21/23	KCA	5	
Bromoform	ND	0.484	ND	5.00	02/21/23	KCA	5	
Bromomethane	ND	1.29	ND	5.01	02/21/23	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	02/21/23	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	02/21/23	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	02/21/23	KCA	5	
Chloroethane	ND	1.90	ND	5.01	02/21/23	KCA	5	
Chloroform	ND	1.02	ND	4.98	02/21/23	KCA	5	
Chloromethane	ND	2.42	ND	4.99	02/21/23	KCA	5	
Cis-1,2-Dichloroethene	93.8	0.252	372	1.00	02/21/23	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	02/21/23	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	02/21/23	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	02/21/23	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	02/21/23	KCA	5	
Ethanol	1030	53.1	1940	100	02/21/23	KCA	100	1
Ethyl acetate	ND	1.39	ND	5.01	02/21/23	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Heptane	ND	1.22	ND	5.00	02/21/23	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	02/21/23	KCA	5	
Hexane	ND	1.42	ND	5.00	02/21/23	KCA	5	
Isopropylalcohol	2.30	2.04	5.65	5.01	02/21/23	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	02/21/23	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	02/21/23	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	02/21/23	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	02/21/23	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	02/21/23	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	02/21/23	KCA	5	
Propylene	ND	2.91	ND	5.01	02/21/23	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	02/21/23	KCA	5	1
Styrene	ND	1.17	ND	4.98	02/21/23	KCA	5	
Tetrachloroethene	2540	3.69	17200	25.0	02/21/23	KCA	100	
Tetrahydrofuran	ND	1.70	ND	5.01	02/21/23	KCA	5	1
Toluene	ND	1.33	ND	5.01	02/21/23	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	02/21/23	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	02/21/23	KCA	5	
Trichloroethene	179	3.70	961	19.9	02/21/23	KCA	100	
Trichlorofluoromethane	ND	0.891	ND	5.00	02/21/23	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	02/21/23	KCA	5	
Vinyl Chloride	ND	0.390	ND	1.00	02/21/23	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	101	%	101	%	02/21/23	KCA	5	
% IS-1,4-Difluorobenzene (5x)	90	%	90	%	02/21/23	KCA	5	
% IS-Bromochloromethane (5x)	91	%	91	%	02/21/23	KCA	5	
% IS-Chlorobenzene-d5 (5x)	92	%	92	%	02/21/23	KCA	5	
% Bromofluorobenzene (100x)	103	%	103	%	02/21/23	KCA	100	
% IS-1,4-Difluorobenzene (100x)	88	%	88	%	02/21/23	KCA	100	
% IS-Bromochloromethane (100x)	88	%	88	%	02/21/23	KCA	100	
% IS-Chlorobenzene-d5 (100x)	88	%	88	%	02/21/23	KCA	100	

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

February 22, 2023

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



QA/QC Report

February 22, 2023

QA/QC Data

SDG I.D.: GCN45901

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 665115 (ppbv), QC Sample No: CN45904 (CN45901 (5X) , CN45902 (5X, 100X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	110	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	117	3.28	3.40	0.601	0.624	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	118	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	108	1.00	1.02	0.203	0.208	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	109	20.9	21.6	8.80	9.11	3.5	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	142	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	121	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	121	0.51	0.52	0.081	0.083	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	111	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	119	2.81	2.84	0.569	0.575	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	133	4.01	4.24	2.13	2.25	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN45901

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	0.280	ND	1.01	83	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	124	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	98	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	113	1.47	1.59	0.600	0.649	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	100	3.83	4.13	1.30	1.40	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	102	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	105	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	106	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	106	461	474	68.0	69.9	2.8	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	105	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	103	0.47	0.47	0.087	0.087	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	114	1.66	1.64	0.295	0.292	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	104	%	104	%	105	103	102	103	102	NC	70 - 130	25
% IS-1,4-Difluorobenzene	105	%	105	%	100	96	94	96	94	NC	60 - 140	25
% IS-Bromochloromethane	104	%	104	%	100	98	94	98	94	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	105	97	96	97	96	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

February 22, 2023

Wednesday, February 22, 2023

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCN45901 - 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

February 22, 2023

SDG I.D.: GCN45901

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

Appendix C
AS/SVE System Water Sample
Laboratory Analytical Results



Tuesday, March 07, 2023

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

Project ID: FROST STREET-OU1
SDG ID: GCN50504
Sample ID#s: CN50504

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



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Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

March 07, 2023

SDG I.D.: GCN50504

Project ID: FROST STREET-OU1

Client Id	Lab Id	Matrix
SVE DISCHARGE WATER	CN50504	GROUND WATER



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 07, 2023

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

Sample Information

Matrix: GROUND WATER
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:

Custody Information

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

Date

02/28/23
02/28/23

Time

10:00
15:00

Laboratory Data

SDG ID: GCN50504
Phoenix ID: CN50504

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	03/06/23	TH	SW6010D
Chromium	< 0.001	0.001		mg/L	1	03/06/23	TH	SW6010D
Copper	0.006	0.005		mg/L	1	03/06/23	TH	SW6010D
Iron	0.118	0.010		mg/L	1	03/06/23	TH	SW6010D
Nickel	0.002	0.001		mg/L	1	03/06/23	TH	SW6010D
Zinc	0.009	0.004		mg/L	1	03/06/23	TH	SW6010D
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	02/28/23 20:34	MW	SM3500CRB-11
PCB Extraction	Completed					03/03/23	S//S/I	E608.3
Total Metals Digestion	Completed					03/02/23	AG	SW3010A

Polychlorinated Biphenyls

PCB-1016	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1221	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1232	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1242	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1248	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1254	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1260	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	
PCB-1262	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	1
PCB-1268	ND	0.047	0.047	ug/L	1	03/07/23	SC	E608.3	1

QA/QC Surrogates

% DCBP	80		%	1	03/07/23	SC	30 - 150 %
% DCBP (Confirmation)	70		%	1	03/07/23	SC	30 - 150 %
% TCMX	69		%	1	03/07/23	SC	30 - 150 %
% TCMX (Confirmation)	68		%	1	03/07/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>								
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,1-Dichloroethene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	02/28/23	MH	E624.1
Carbon disulfide	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Chloromethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
cis-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/28/23	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	02/28/23	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	02/28/23	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	02/28/23	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	02/28/23	MH	E624.1
Tetrachloroethene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	02/28/23	MH	E624.1
Trichloroethene	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	02/28/23	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	99			%	1	02/28/23	MH	70 - 130 %
% Bromofluorobenzene	97			%	1	02/28/23	MH	70 - 130 %
% Dibromofluoromethane	101			%	1	02/28/23	MH	70 - 130 %
% Toluene-d8	94			%	1	02/28/23	MH	70 - 130 %

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

Phoenix I.D.: CN50504

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
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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 LOD=Limit of Detection MDL=Method Detection Limit1

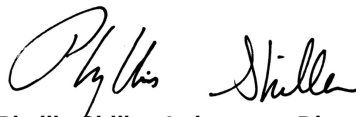
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

624 Analyses:

Acrylonitrile, 2-Chloroethyl vinyl ether and Acrolein could not be analyzed due to HCL preserved vial, these compounds can only be analyzed on an AS IS vial.

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 07, 2023

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



QA/QC Report

March 07, 2023

QA/QC Data

SDG I.D.: GCN50504

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 666445 (mg/L), QC Sample No: CN51494 (CN50504)													
<u>ICP Metals - Aqueous</u>													
Cadmium	BRL	0.001	0.001	0.001	NC	95.2	96.3	1.1	96.0			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	105	106	0.9	107			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	96.2	97.1	0.9	105			80 - 120	20
Iron	BRL	0.010	0.227	0.212	6.80	99.8	101	1.2	101			80 - 120	20
Nickel	BRL	0.001	0.025	0.025	0	99.3	100	0.7	104			80 - 120	20
Zinc	BRL	0.004	0.014	0.013	NC	95.5	96.8	1.4	101			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 07, 2023

QA/QC Data

SDG I.D.: GCN50504

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 666060 (mg/L), QC Sample No: CN50140 (CN50504)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	98.1			105			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 07, 2023

QA/QC Data

SDG I.D.: GCN50504

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 666560 (ug/L), QC Sample No: CN49830 (CN50504)										
<u>Polychlorinated Biphenyls - Ground Water</u>										
PCB-1016	ND	0.050	78	72	8.0				50 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	92	108	16.0				30 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	81	%	83	90	8.1				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	73	%	75	85	12.5				30 - 150	20
% TCMX (Surrogate Rec)	74	%	87	87	0.0				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	74	%	85	87	2.3				30 - 150	20
Comment:										

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 666234 (ug/L), QC Sample No: CN50504 (CN50504)

Volatiles - Ground Water

1,1,1-Trichloroethane	ND	1.0	115	105	9.1	101	101	0.0	75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	108	104	3.8	99	102	3.0	60 - 140	20
1,1,2-Trichloroethane	ND	1.0	105	98	6.9	97	99	2.0	71 - 129	20
1,1-Dichloroethane	ND	1.0	98	91	7.4	87	88	1.1	72 - 128	20
1,1-Dichloroethene	ND	1.0	99	92	7.3	87	87	0.0	50 - 150	20
1,2-Dichlorobenzene	ND	1.0	112	108	3.6	102	104	1.9	63 - 137	20
1,2-Dichloroethane	ND	1.0	110	103	6.6	102	104	1.9	68 - 132	20
1,2-Dichloropropane	ND	1.0	103	96	7.0	93	95	2.1	40 - 160	20
1,3-Dichlorobenzene	ND	1.0	116	110	5.3	104	104	0.0	73 - 127	20
1,4-Dichlorobenzene	ND	1.0	112	110	1.8	100	102	2.0	63 - 137	20
Benzene	ND	0.70	122	114	6.8	109	110	0.9	64 - 136	20
Bromodichloromethane	ND	0.50	108	101	6.7	97	98	1.0	65 - 135	20
Bromoform	ND	1.0	113	106	6.4	103	108	4.7	71 - 129	20
Bromomethane	ND	1.0	97	87	10.9	79	81	2.5	40 - 160	20
Carbon Disulfide	ND	1.0	105	97	7.9	87	90	3.4	70 - 130	30
Carbon tetrachloride	ND	1.0	117	107	8.9	105	106	0.9	73 - 127	20
Chlorobenzene	ND	1.0	114	106	7.3	103	104	1.0	66 - 134	20
Chloroethane	ND	1.0	85	82	3.6	82	77	6.3	40 - 160	20
Chloroform	ND	1.0	120	110	8.7	107	108	0.9	67 - 133	20
Chloromethane	ND	1.0	106	100	5.8	95	96	1.0	40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	97	92	5.3	88	87	1.1	69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	111	104	6.5	96	97	1.0	40 - 160	20
Dibromochloromethane	ND	0.50	118	108	8.8	107	109	1.9	67 - 133	20

QA/QC Data

SDG I.D.: GCN50504

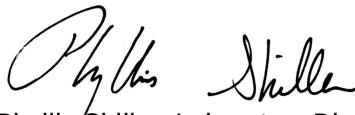
Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	1.0	111	103	7.5	99	100	1.0	59 - 141	20
m&p-Xylene	ND	1.0	114	104	9.2	100	102	2.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	92	86	6.7	85	85	0.0	70 - 130	30
Methylene chloride	ND	1.0	98	92	6.3	90	90	0.0	60 - 140	20
Naphthalene	ND	1.0	106	102	3.8	96	100	4.1	70 - 130	30
o-Xylene	ND	1.0	115	106	8.1	102	104	1.9	70 - 130	30
Tetrachloroethene	ND	1.0	106	96	9.9	91	92	1.1	73 - 127	20
Toluene	ND	1.0	105	97	7.9	93	95	2.1	74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	98	92	6.3	86	87	1.2	69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	110	103	6.6	95	97	2.1	50 - 150	20
Trichloroethene	ND	1.0	111	104	6.5	99	99	0.0	66 - 134	20
Trichlorofluoromethane	ND	1.0	94	87	7.7	85	85	0.0	48 - 152	20
Vinyl chloride	ND	1.0	108	101	6.7	94	94	0.0	40 - 160	20
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	97	3.0	101	99	2.0	70 - 130	30
% Dibromofluoromethane	101	%	103	102	1.0	102	102	0.0	70 - 130	30
% Toluene-d8	95	%	96	95	1.0	95	95	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

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 07, 2023

Tuesday, March 07, 2023

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCN50504 - 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 07, 2023

SDG I.D.: GCN50504

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PCB 608 Narration

AU-ECD1 03/06/23-1: CN50504

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CN50504

Preceding CC 306B044 - PCB 1260 18%H (15%)

Succeeding CC 306B050 - PCB 1260 23%H (15%)



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NY Temperature Narration

March 07, 2023

SDG I.D.: GCN50504

The samples in this delivery group were received at 1.8°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

