

January 11, 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: December 2020
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 December 2020 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).
 - Two alarm calls were received in December 2020. One was due to high temperature of the AS compressor which was addressed by adding oil and restarting the system. The other was due to high water in the storage tank; the water was sampled and the tank was emptied to the sewer in accordance with the discharge authorization.
 - The new compressor is being installed the week of January 5 and 11, 2021, as described in the November Progress Report. The downtime anticipated for this work is approximately 1 week.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on December 29, 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 [64,520 $\mu\text{g}/\text{m}^3$]) continue to indicate significant mass extraction, which is expected since the AS portion of the system resumed operation in November.
- Effluent concentrations are below the carbon exchange indicator concentrations, as shown below. Because effluent concentrations are higher than influent concentrations for these compounds in prior samples and PID readings indicated breakthrough had occurred, a carbon exchange was performed on January 5, 2021.

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 ($\mu\text{g}/\text{m}^3$) ²	December 2020 Effluent Concentration ($\mu\text{g}/\text{m}^3$)
Trichloroethene	500	19,000	2,590
Tetrachloroethene	1,000	38,000	18,000
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	1,560

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

 $\mu\text{g}/\text{m}^3$ micrograms per cubic meter

1 Source of Mass Emission Limit: Part 212-2.2 Table 2 — High Toxicity Air Contaminant List

2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.

3 Cis-1,2-dichloroethene is not a listed HTAC, so the default is 100 lbs/year.

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, EX-1C, and EX-1D operated near design flow rates (30, 30, 48, and 48 gallons per minute, respectively) for all of December.

Quarterly samples were collected from each extraction well on December 29 and analyzed for VOCs; a summary of the detected values is provided below. This data continues to indicate significant mass extraction. Full results for these events are provided in Appendix C; historical data is graphed in Appendix D.

Groundwater Extraction System Individual Extraction Well Data – Volatile Organic Compounds (ppb)				
Analyte	EX-1A	EX-1B	EX-1C	EX-1D
1,1,1-Trichloroethane	ND	ND	ND	0.33
1,1-Dichloroethane	ND	ND	ND	0.35
1,1-Dichloroethene	ND	ND	0.4	2.8
Chloroform	ND	ND	ND	0.84
cis-1,2-Dichloroethene	2.8	8.5	1.2	4.2
Tetrachloroethene	53	290	73	98
Trichloroethene	4.2	14	5.5	25
Total VOCs	60	312.5	80.1	131.52

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 2020 groundwater sampling event was completed the week of September 21; analytical data was submitted to NYSDEC on October 30 and the report was submitted on December 31.

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
 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: 15-Dec
 Weather / Temp: Clear / 40 DEG
 Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		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)	4500		884		Blower 1 Total Runtime (hrs)	59,868.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	60,487.6			
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)	50				VGAC-1 Influent PID (ppm)	6.0			
VGAC-1 Effluent Vacuum ("H2O)	55				VGAC-1 Effluent PID (ppm)	2.4			
VGAC-2 Influent Vacuum ("H2O)	55				VGAC-2 Influent PID (ppm)	6.0			
VGAC-2 Effluent Vacuum ("H2O)	58				VGAC-2 Effluent PID (ppm)	2.4			
VGAC-3 Influent Pressure ("H2O)	7				VGAC-3 Influent PID (ppm)	2.4			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	2.0			
VGAC-3 Influent Temp (DegF)	NA				Blower Effluent PID (ppm)	2.0			
Blower Effluent Pressure ("H2O)	10								
Transfer Pump Total Runtime (hrs)	25,042.1				Condensate Storage Tank Level (gal)	375			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	3800	83	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4600	100		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	3900	85		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	75			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	157			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	39,732			
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/cfm)	17		10		AS-11 (psi)/cfm)	15		10	
AS-2 (psi)/cfm)	16		6		AS-12B (psi)/cfm)	16		10	
AS-3 (psi)/cfm)	16		10		AS-13B (psi)/cfm)	15		11	
AS-4 (psi)/cfm)	15		4		AS-14 (psi)/cfm)	15		11	
AS-5 (psi)/cfm)	17		10		AS-15 (psi)/cfm)	16		10	
AS-6 (psi)/cfm)	16		0		AS-16B (psi)/cfm)	15		10	
AS-7 (psi)/cfm)	16		5		AS-17 (psi)/cfm)	16		7	
AS-8 (psi)/cfm)	15		10		AS-18 (psi)/cfm)	15		8	
AS-9 (psi)/cfm)	16		8		AS-19 (psi)/cfm)	15		7	
AS-10B (psi)/cfm)	15		11						

Notes, Comments & Observations:

Switched GAC-3 to pressure side of blower after O&M.

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: 15-Dec
Weather / Temp: Clear / 40 DEG
Technician / Operator: JW

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

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: 29-Dec
Weather / Temp: Clear / 35 DEG
Technician / Operator: JW

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

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		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)	4500		884		Blower 1 Total Runtime (hrs)	59,950.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	60,633.1			
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)	47				VGAC-1 Effluent PID (ppm)	14.1			
VGAC-1 Effluent Vacuum ("H2O)	53				VGAC-1 Effluent PID (ppm)	5.7			
VGAC-2 Influent Vacuum ("H2O)	49				VGAC-2 Influent PID (ppm)	14.1			
VGAC-2 Effluent Vacuum ("H2O)	50				VGAC-2 Effluent PID (ppm)	5.7			
VGAC-3 Influent Pressure ("H2O)	6				VGAC-3 Influent PID (ppm)	5.7			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	2.1			
VGAC-3 Influent Temp (DegF)	NA				Blower Effluent PID (ppm)	5.7			
Blower Effluent Pressure ("H2O)	10								
Transfer Pump Total Runtime (hrs)	25,042.1				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)	50	6500	142	18.9	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4100	89	0.8
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	56	4200	92	14.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3100	68	9.7
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	44	5200	113	6.1	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142	36.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4200	92	1.8	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	42	3000	65	1.4
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	79			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	159			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	39,904			
Manifold Regulator Pressure (psi)	68								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	17	10	AS-11 (psi)/(cfm)		15	10			
AS-2 (psi)/(cfm)	16	6	AS-12B (psi)/(cfm)		16	10			
AS-3 (psi)/(cfm)	16	10	AS-13B (psi)/(cfm)		15	11			
AS-4 (psi)/(cfm)	15	4	AS-14 (psi)/(cfm)		15	11			
AS-5 (psi)/(cfm)	17	10	AS-15 (psi)/(cfm)		16	10			
AS-6 (psi)/(cfm)	16	0	AS-16B (psi)/(cfm)		15	10			
AS-7 (psi)/(cfm)	16	5	AS-17 (psi)/(cfm)		16	7			
AS-8 (psi)/(cfm)	15	10	AS-18 (psi)/(cfm)		15	8			
AS-9 (psi)/(cfm)	16	8	AS-19 (psi)/(cfm)		15	7			
AS-10B (psi)/(cfm)	15	11							

Notes, Comments & Observations:

Collected air and water 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: 29-Dec
Weather / Temp: Clear / 35 DEG
Technician / Operator: JW

Arrival Time: 9:00
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	

ALARM VISIT LOG
AS/SVE SYSTEM
101 FROST STREET, WESTBURY, NY

[illegible]

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



Monday, January 04, 2021

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

Project ID: ENSAFE WESTBURY
SDG ID: GCH38181
Sample ID#s: CH38181 - CH38182

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

January 04, 2021

SDG I.D.: GCH38181

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Matrix
SVE INFLUENT	CH38181	AIR
SVE EFFLUENT	CH38182	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

January 04, 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: 785

Custody Information

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

Date

12/29/20
12/29/20

Time

9:18
15:21

Laboratory Data

SDG ID: GCH38181
Phoenix ID: CH38181

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

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	0.729	ND	5.00	12/29/20	KCA	5	1
1,1,1-Trichloroethane	ND	0.917	ND	5.00	12/29/20	KCA	5	
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	12/29/20	KCA	5	
1,1,2-Trichloroethane	ND	0.917	ND	5.00	12/29/20	KCA	5	
1,1-Dichloroethane	ND	1.24	ND	5.02	12/29/20	KCA	5	
1,1-Dichloroethene	ND	0.252	ND	1.00	12/29/20	KCA	5	
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	12/29/20	KCA	5	
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5	
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	12/29/20	KCA	5	
1,2-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5	
1,2-Dichloroethane	ND	1.24	ND	5.02	12/29/20	KCA	5	
1,2-dichloropropane	ND	1.08	ND	4.99	12/29/20	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	12/29/20	KCA	5	
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5	
1,3-Butadiene	ND	2.26	ND	5.00	12/29/20	KCA	5	
1,3-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5	
1,4-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5	
1,4-Dioxane	ND	1.39	ND	5.01	12/29/20	KCA	5	
2-Hexanone(MBK)	ND	1.22	ND	4.99	12/29/20	KCA	5	1
4-Ethyltoluene	ND	1.02	ND	5.01	12/29/20	KCA	5	1
4-Isopropyltoluene	ND	0.911	ND	5.00	12/29/20	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	12/29/20	KCA	5	
Acetone	3.50	2.11	8.31	5.01	12/29/20	KCA	5	
Acrylonitrile	ND	2.31	ND	5.01	12/29/20	KCA	5	
Benzene	ND	1.57	ND	5.01	12/29/20	KCA	5	
Benzyl chloride	ND	0.966	ND	5.00	12/29/20	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	12/29/20	KCA	5	
Bromoform	ND	0.484	ND	5.00	12/29/20	KCA	5	
Bromomethane	ND	1.29	ND	5.01	12/29/20	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	12/29/20	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	12/29/20	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	12/29/20	KCA	5	
Chloroethane	ND	1.90	ND	5.01	12/29/20	KCA	5	
Chloroform	ND	1.02	ND	4.98	12/29/20	KCA	5	
Chloromethane	ND	2.42	ND	4.99	12/29/20	KCA	5	
Cis-1,2-Dichloroethene	380	7.57	1510	30.0	12/30/20	KCA	150	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	12/29/20	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	12/29/20	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	12/29/20	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	12/29/20	KCA	5	
Ethanol	756	79.7	1420	150	12/30/20	KCA	150	1
Ethyl acetate	ND	1.39	ND	5.01	12/29/20	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Heptane	ND	1.22	ND	5.00	12/29/20	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	12/29/20	KCA	5	
Hexane	ND	1.42	ND	5.00	12/29/20	KCA	5	
Isopropylalcohol	25.7	2.04	63.1	5.01	12/29/20	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	12/29/20	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	12/29/20	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	12/29/20	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	12/29/20	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Propylene	ND	2.91	ND	5.01	12/29/20	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	12/29/20	KCA	5	1
Styrene	ND	1.17	ND	4.98	12/29/20	KCA	5	
Tetrachloroethene	8980	13.8	60900	93.5	12/30/20	KCA	375	
Tetrahydrofuran	ND	1.70	ND	5.01	12/29/20	KCA	5	1
Toluene	ND	1.33	ND	5.01	12/29/20	KCA	5	
Trans-1,2-Dichloroethene	4.19	1.26	16.6	4.99	12/29/20	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	12/29/20	KCA	5	
Trichloroethene	393	5.59	2110	30.0	12/30/20	KCA	150	
Trichlorofluoromethane	ND	0.891	ND	5.00	12/29/20	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	12/29/20	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	12/29/20	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	97	%	97	%	12/29/20	KCA	5	
% IS-1,4-Difluorobenzene (5x)	85	%	85	%	12/29/20	KCA	5	
% IS-Bromochloromethane (5x)	87	%	87	%	12/29/20	KCA	5	
% IS-Chlorobenzene-d5 (5x)	99	%	99	%	12/29/20	KCA	5	
% Bromofluorobenzene (150x)	99	%	99	%	12/30/20	KCA	150	
% IS-1,4-Difluorobenzene (150x)	71	%	71	%	12/30/20	KCA	150	
% IS-Bromochloromethane (150x)	69	%	69	%	12/30/20	KCA	150	
% IS-Chlorobenzene-d5 (150x)	71	%	71	%	12/30/20	KCA	150	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
% Bromofluorobenzene (375x)	97	%	97	%	12/30/20	KCA	375
% IS-1,4-Difluorobenzene (375x)	96	%	96	%	12/30/20	KCA	375
% IS-Bromochloromethane (375x)	98	%	98	%	12/30/20	KCA	375
% IS-Chlorobenzene-d5 (375x)	92	%	92	%	12/30/20	KCA	375

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

January 04, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

January 04, 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: 810

Custody Information

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

Date

12/29/20
12/29/20

Time

9:14
15:21

Laboratory Data

SDG ID: GCH38181
Phoenix ID: CH38182

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	0.729	ND	5.00	12/29/20	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	12/29/20	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	12/29/20	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	12/29/20	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	12/29/20	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	12/29/20	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	12/29/20	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	12/29/20	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	12/29/20	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	12/29/20	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	12/29/20	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	12/29/20	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	12/29/20	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	12/29/20	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	12/29/20	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	12/29/20	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	12/29/20	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	12/29/20	KCA	5
Acetone	ND	2.11	ND	5.01	12/29/20	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	12/29/20	KCA	5
Benzene	ND	1.57	ND	5.01	12/29/20	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	12/29/20	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	12/29/20	KCA	5	
Bromoform	ND	0.484	ND	5.00	12/29/20	KCA	5	
Bromomethane	ND	1.29	ND	5.01	12/29/20	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	12/29/20	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	12/29/20	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	12/29/20	KCA	5	
Chloroethane	ND	1.90	ND	5.01	12/29/20	KCA	5	
Chloroform	ND	1.02	ND	4.98	12/29/20	KCA	5	
Chloromethane	ND	2.42	ND	4.99	12/29/20	KCA	5	
Cis-1,2-Dichloroethene	393	3.79	1560	15.0	12/30/20	KCA	75	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	12/29/20	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	12/29/20	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	12/29/20	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	12/29/20	KCA	5	
Ethanol	21.1	2.66	39.7	5.01	12/29/20	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	12/29/20	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Heptane	ND	1.22	ND	5.00	12/29/20	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	12/29/20	KCA	5	
Hexane	ND	1.42	ND	5.00	12/29/20	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	12/29/20	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	12/29/20	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	12/29/20	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	12/29/20	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	12/29/20	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	12/29/20	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	12/29/20	KCA	5	
Propylene	ND	2.91	ND	5.01	12/29/20	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	12/29/20	KCA	5	1
Styrene	ND	1.17	ND	4.98	12/29/20	KCA	5	
Tetrachloroethene	2660	2.77	18000	18.8	12/30/20	KCA	75	
Tetrahydrofuran	ND	1.70	ND	5.01	12/29/20	KCA	5	1
Toluene	ND	1.33	ND	5.01	12/29/20	KCA	5	
Trans-1,2-Dichloroethene	4.43	1.26	17.6	4.99	12/29/20	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	12/29/20	KCA	5	
Trichloroethene	483	2.79	2590	15.0	12/30/20	KCA	75	
Trichlorofluoromethane	ND	0.891	ND	5.00	12/29/20	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	12/29/20	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	12/29/20	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	97	%	97	%	12/29/20	KCA	5	
% IS-1,4-Difluorobenzene (5x)	78	%	78	%	12/29/20	KCA	5	
% IS-Bromochloromethane (5x)	80	%	80	%	12/29/20	KCA	5	
% IS-Chlorobenzene-d5 (5x)	86	%	86	%	12/29/20	KCA	5	
% Bromofluorobenzene (75x)	98	%	98	%	12/30/20	KCA	75	
% IS-1,4-Difluorobenzene (75x)	70	%	70	%	12/30/20	KCA	75	
% IS-Bromochloromethane (75x)	69	%	69	%	12/30/20	KCA	75	
% IS-Chlorobenzene-d5 (75x)	68	%	68	%	12/30/20	KCA	75	

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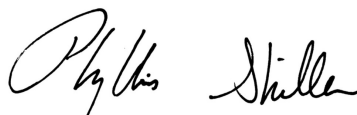
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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:

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 04, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

January 04, 2021

QA/QC Data

SDG I.D.: GCH38181

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 558156 (ppbv), QC Sample No: CH38051 (CH38181 (5X, 150X) , CH38182 (5X, 75X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	113	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.020	ND	0.11	111	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.150	ND	0.61	112	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.200	ND	0.79	104	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.054	ND	0.40	99	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.100	ND	0.60	110	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.020	ND	0.08	101	0.37	0.38	0.092	0.094	NC	70 - 130	25
1,2-dichloropropane	ND	0.020	ND	0.09	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	108	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	110	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.500	ND	1.11	110	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.100	ND	0.60	108	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.080	ND	0.48	106	0.65	0.67	0.108	0.112	NC	70 - 130	25
1,4-Dioxane	ND	0.130	ND	0.47	50	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	105	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	111	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	109	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.750	ND	1.78	88	ND	ND	ND	ND	NC	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	112	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.200	ND	0.64	107	1.28	1.40	0.400	0.440	NC	70 - 130	25
Benzyl chloride	ND	0.500	ND	2.59	109	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.020	ND	0.13	107	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.150	ND	1.55	103	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.140	ND	0.54	112	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	101	1.13	1.14	0.179	0.181	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	108	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	110	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	103	1.26	1.34	0.609	0.649	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	114	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.100	ND	0.45	113	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	112	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.020	ND	0.17	106	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	98	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.750	ND	1.41	84	2750 E	2790	1460 E	1480	1.4	70 - 130	25

QA/QC Data

SDG I.D.: GCH38181

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	113	4.79	4.86	1.33	1.35	NC	70 - 130	25
Ethylbenzene	ND	0.500	ND	2.17	110	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.500	ND	2.05	107	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.020	ND	0.21	90	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	83	400 E	413	163 E	168	3.0	70 - 130	25
Isopropylbenzene	ND	0.500	ND	2.46	110	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	1.00	ND	4.34	115	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.450	ND	1.33	102	1.49	1.58	0.507	0.536	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.500	ND	1.80	109	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	3.00	ND	10.4	107	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.500	ND	2.74	109	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.500	ND	2.17	114	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	112	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.200	ND	0.85	113	1.74	1.78	0.409	0.418	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	108	0.83	ND	0.123	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.500	ND	1.47	108	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.500	ND	1.88	111	4.52	4.37	1.20	1.16	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	107	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.500	ND	2.27	107	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.050	ND	0.27	102	6.18	5.91	1.15	1.10	4.4	70 - 130	25
Trichlorofluoromethane	ND	0.500	ND	2.81	100	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.500	ND	3.83	102	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.100	ND	0.26	113	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	96	%	96	%	101	97	98	97	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	101	%	101	%	98	90	92	90	92	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	95	87	86	87	86	NC	60 - 140	25
% IS-Chlorobenzene-d5	101	%	101	%	99	92	93	92	93	NC	60 - 140	25

QA/QC Batch 558320 (ppbv), QC Sample No: CH39375 (CH38181 (375X))

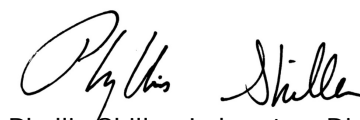
Volatiles

Tetrachloroethene	ND	0.100	ND	0.68	115	11.3	11.3	1.66	1.67	0.6	70 - 130	25
% Bromofluorobenzene	96	%	96	%	96	101	96	101	96	NC	70 - 130	25
% IS-1,4-Difluorobenzene	106	%	106	%	126	103	133	103	133	NC	60 - 140	25
% IS-Bromochloromethane	107	%	107	%	125	103	138	103	138	NC	60 - 140	25
% IS-Chlorobenzene-d5	103	%	103	%	122	99	126	99	126	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
January 04, 2021

Monday, January 04, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH38181 - 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.
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Analysis Comments

January 04, 2021

SDG I.D.: GCH38181

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

Appendix C
Groundwater Extraction Well Sampling
Laboratory Analytical Results



Sunday, January 03, 2021

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

Project ID: FROST STREET OU2
SDG ID: GCH38183
Sample ID#s: CH38183

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



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Sample Id Cross Reference

January 03, 2021

SDG I.D.: GCH38183

Project ID: FROST STREET OU2

Client Id	Lab Id	Matrix
COMBINED EFFLUENT	CH38183	GROUND WATER



Environmental Laboratories, Inc.
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Analysis Report

January 03, 2021

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: B
Analyzed by: see "By" below

Date

12/29/20
12/29/20

Time

10:00
15:21

Laboratory Data

SDG ID: GCH38183
Phoenix ID: CH38183

Project ID: FROST STREET OU2
Client ID: COMBINED EFFLUENT

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Cadmium	< 0.001	0.001		mg/L	1	12/30/20	TH	SW6010D
Chromium	< 0.001	0.001		mg/L	1	12/30/20	TH	SW6010D
Copper	< 0.005	0.005		mg/L	1	12/30/20	TH	SW6010D
Iron	0.047	0.010		mg/L	1	12/30/20	TH	SW6010D
Nickel	0.002	0.001		mg/L	1	12/30/20	TH	SW6010D
Zinc	0.004	0.004		mg/L	1	12/30/20	TH	SW6010D
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	12/29/20 16:53	MW	SM3500CRB-11
Total Metals Digestion	Completed					12/29/20	AG	

Volatiles

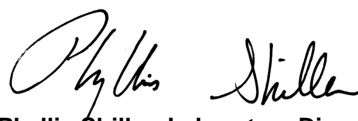
1,1,1-Trichloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,1,2,2-tetrachloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,1,2-Trichloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,1-Dichloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,1-Dichloroethene	0.69	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,2-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,2-Dichloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,2-Dichloropropane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,3-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
1,4-Dichlorobenzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Benzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Bromodichloromethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Bromoform	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Bromomethane	ND	0.50	0.50	ug/L	1	12/29/20	MH	E624.1
Carbon tetrachloride	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Chlorobenzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Chloroethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Chloroform	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
cis-1,2-Dichloroethene	3.1	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
cis-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/29/20	MH	E624.1
Dibromochloromethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
m&p-Xylene	ND	0.50	0.42	ug/L	1	12/29/20	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.50	ug/L	1	12/29/20	MH	E624.1
Methylene chloride	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	12/29/20	MH	E624.1
o-Xylene	ND	0.50	0.45	ug/L	1	12/29/20	MH	E624.1
Tetrachloroethene	91	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Toluene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
trans-1,2-Dichloroethene	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
trans-1,3-Dichloropropene	ND	0.40	0.25	ug/L	1	12/29/20	MH	E624.1
Trichloroethene	9.7	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Trichlorofluoromethane	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	12/29/20	MH	E624.1
<u>QA/QC Surrogates</u>								
% 1,2-dichlorobenzene-d4	105			%	1	12/29/20	MH	70 - 130 %
% Bromofluorobenzene	92			%	1	12/29/20	MH	70 - 130 %
% Dibromofluoromethane	102			%	1	12/29/20	MH	70 - 130 %
% Toluene-d8	97			%	1	12/29/20	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 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.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

January 03, 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



QA/QC Report

January 03, 2021

QA/QC Data

SDG I.D.: GCH38183

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 558065 (mg/L), QC Sample No: CH37569 (CH38183)													
<u>ICP Metals - Aqueous</u>													
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.6	98.6	1.0	97.3			80 - 120	20
Chromium	BRL	0.001	0.001	0.001	NC	100	99.3	0.7	98.5			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	101	99.0	2.0	100			80 - 120	20
Iron	BRL	0.010	0.129	0.129	0	101	100	1.0	99.1			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	100	99.7	0.3	98.4			80 - 120	20
Zinc	BRL	0.004	0.009	0.005	NC	100	99.1	0.9	97.8			80 - 120	20

Comment:

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



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QA/QC Report

January 03, 2021

QA/QC Data

SDG I.D.: GCH38183

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 558088 (mg/L), QC Sample No: CH38277 (CH38183)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	97.0			97.0			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

January 03, 2021

QA/QC Data

SDG I.D.: GCH38183

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 558176 (ug/L), QC Sample No: CH37933 (CH38183)										
Volatiles - Ground Water										
1,1,1-Trichloroethane	ND	1.0	108	111	2.7	108	111	2.7	75 - 125	20
1,1,2,2-Tetrachloroethane	ND	0.50	109	106	2.8	106	105	0.9	60 - 140	20
1,1,2-Trichloroethane	ND	1.0	103	102	1.0	103	100	3.0	71 - 129	20
1,1-Dichloroethane	ND	1.0	105	107	1.9	102	105	2.9	72 - 128	20
1,1-Dichloroethene	ND	1.0	106	108	1.9	108	112	3.6	50 - 150	20
1,2-Dichlorobenzene	ND	1.0	109	108	0.9	108	108	0.0	63 - 137	20
1,2-Dichloroethane	ND	1.0	113	111	1.8	106	111	4.6	68 - 132	20
1,2-Dichloropropane	ND	1.0	101	102	1.0	97	100	3.0	40 - 160	20
1,3-Dichlorobenzene	ND	1.0	110	109	0.9	112	110	1.8	73 - 127	20
1,4-Dichlorobenzene	ND	1.0	106	108	1.9	107	107	0.0	63 - 137	20
Benzene	ND	0.70	103	102	1.0	97	103	6.0	64 - 136	20
Bromodichloromethane	ND	0.50	111	111	0.0	107	112	4.6	65 - 135	20
Bromoform	ND	1.0	124	120	3.3	111	115	3.5	71 - 129	20
Bromomethane	ND	1.0	99	101	2.0	91	99	8.4	40 - 160	20
Carbon tetrachloride	ND	1.0	100	117	15.7	118	120	1.7	73 - 127	20
Chlorobenzene	ND	1.0	111	109	1.8	105	108	2.8	66 - 134	20
Chloroethane	ND	1.0	96	96	0.0	92	97	5.3	40 - 160	20
Chloroform	ND	1.0	105	106	0.9	103	106	2.9	67 - 133	20
Chloromethane	ND	1.0	88	90	2.2	84	88	4.7	40 - 160	20
cis-1,2-Dichloroethene	ND	1.0	97	96	1.0	94	95	1.1	69 - 131	20
cis-1,3-Dichloropropene	ND	0.40	108	107	0.9	104	106	1.9	40 - 160	20
Dibromochloromethane	ND	0.50	122	118	3.3	113	118	4.3	67 - 133	20
Ethylbenzene	ND	1.0	112	108	3.6	104	109	4.7	59 - 141	20
m&p-Xylene	ND	1.0	116	113	2.6	109	115	5.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	113	117	3.5	112	111	0.9	70 - 130	30
Methylene chloride	ND	1.0	101	103	2.0	99	100	1.0	60 - 140	20
Naphthalene	ND	1.0	113	110	2.7	104	103	1.0	70 - 130	30
o-Xylene	ND	1.0	121	120	0.8	110	116	5.3	70 - 130	30
Tetrachloroethene	ND	1.0	107	104	2.8	102	107	4.8	73 - 127	20
Toluene	ND	1.0	105	105	0.0	100	105	4.9	74 - 126	20
trans-1,2-Dichloroethene	ND	1.0	111	120	7.8	111	115	3.5	69 - 131	20
trans-1,3-Dichloropropene	ND	0.40	112	105	6.5	102	104	1.9	50 - 150	20
Trichloroethene	ND	1.0	104	107	2.8	101	107	5.8	66 - 134	20
Trichlorofluoromethane	ND	1.0	102	104	1.9	106	109	2.8	48 - 152	20
Vinyl chloride	ND	1.0	101	106	4.8	102	105	2.9	40 - 160	20
% 1,2-dichlorobenzene-d4	107	%	101	102	1.0	103	100	3.0	70 - 130	30
% Bromofluorobenzene	95	%	102	101	1.0	96	98	2.1	70 - 130	30
% Dibromofluoromethane	106	%	99	99	0.0	101	99	2.0	70 - 130	30
% Toluene-d8	94	%	98	96	2.1	97	97	0.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Data

SDG I.D.: GCH38183

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

January 03, 2021

Sunday, January 03, 2021

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCH38183 - 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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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

January 03, 2021

SDG I.D.: GCH38183

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



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NY Temperature Narration

January 03, 2021

SDG I.D.: GCH38183

The samples in this delivery group were received at 2.4°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: EnviroTrac
Address: 5 Old Dock Road
Yaphank, NY 11980

Project:	Frost Street - OU2
Report to:	Jim Wilkinson
Invoice to:	EnviroTrac
QUOTE #	

Data Delivery/Contact Options:

☐ Fax: _____

☐ Phone: _____

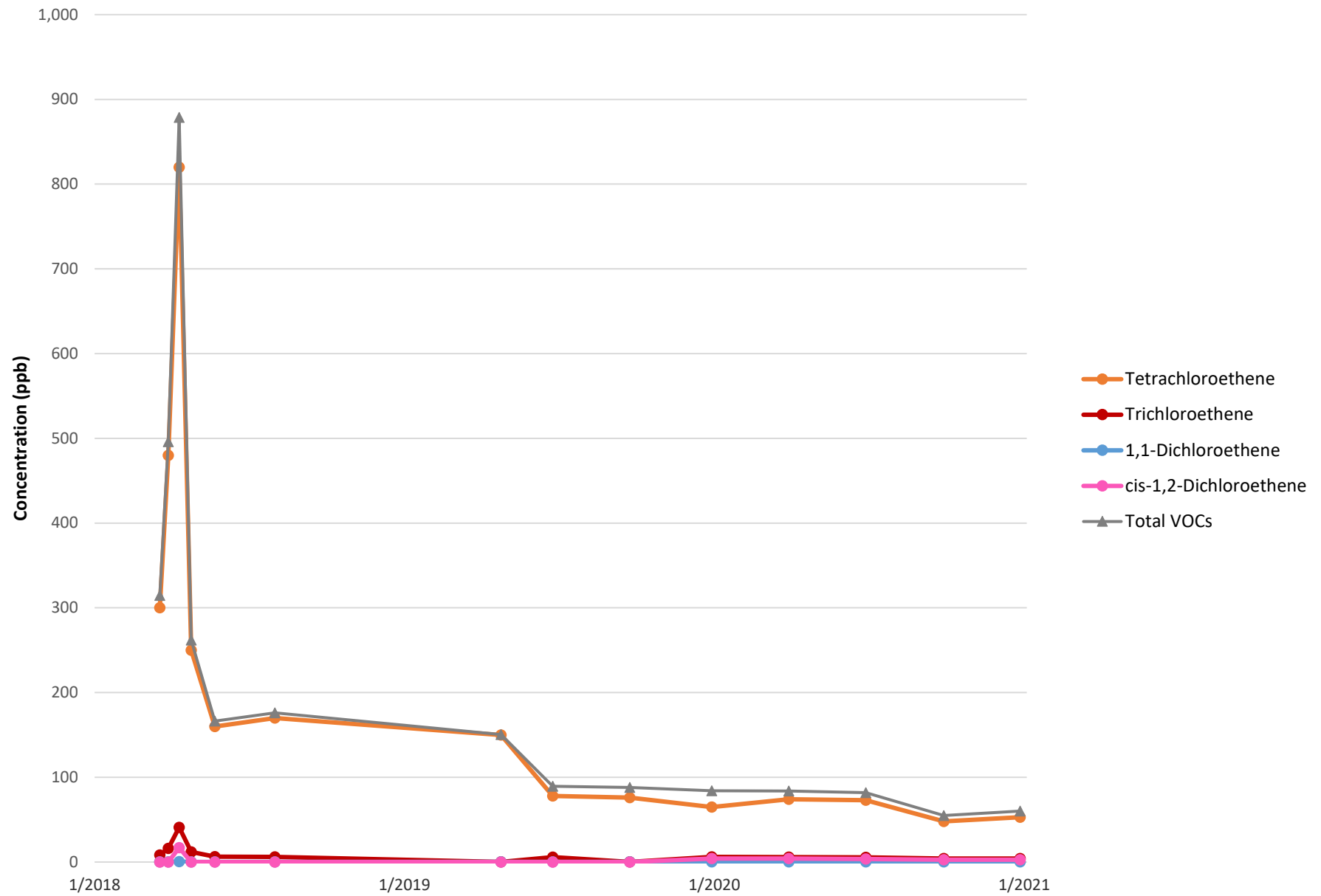
☒ Email: jamesw@envirotrac.com

Project P.O.:

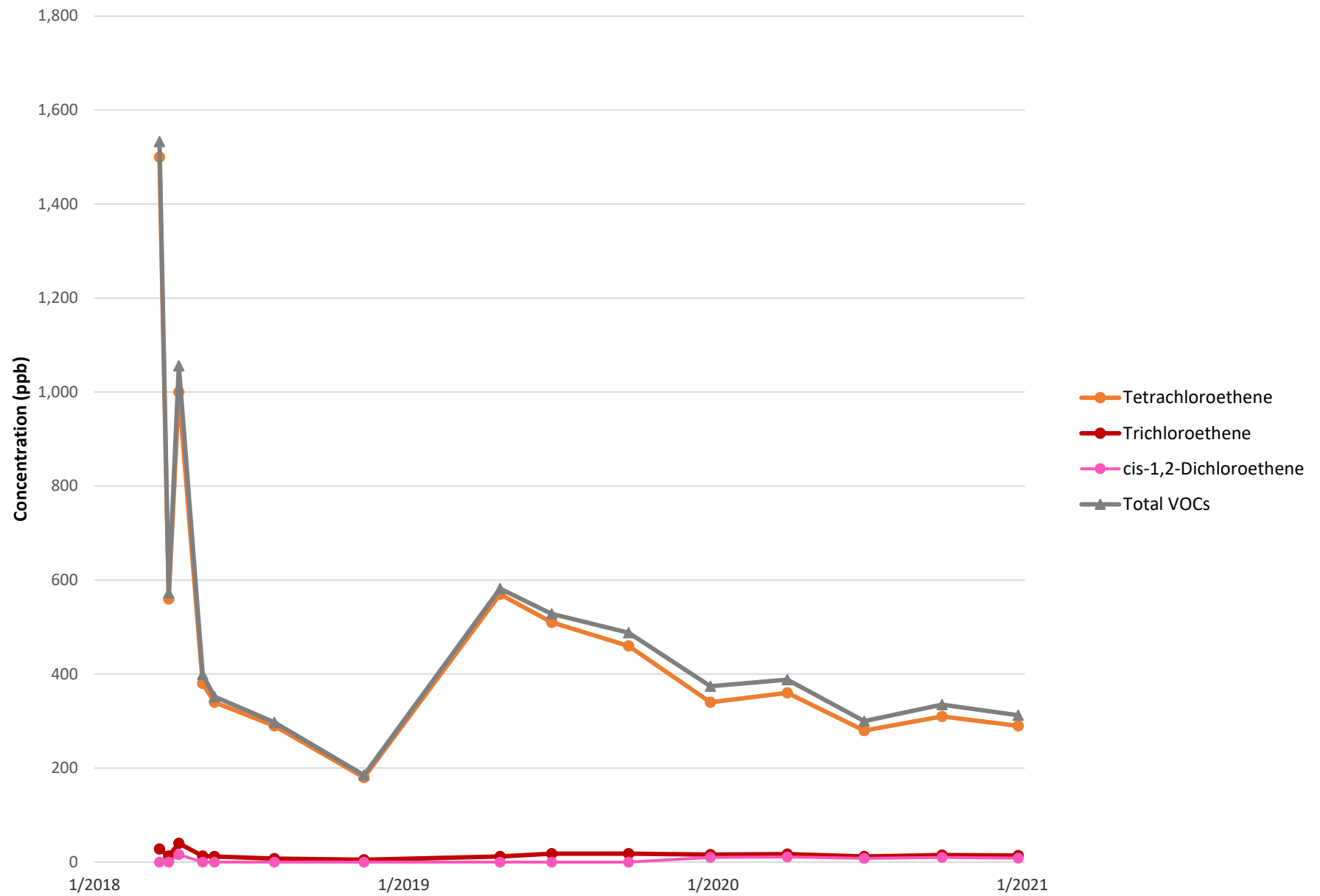
[illegible]

Appendix D
Groundwater Extraction Well Sampling
Historical Results

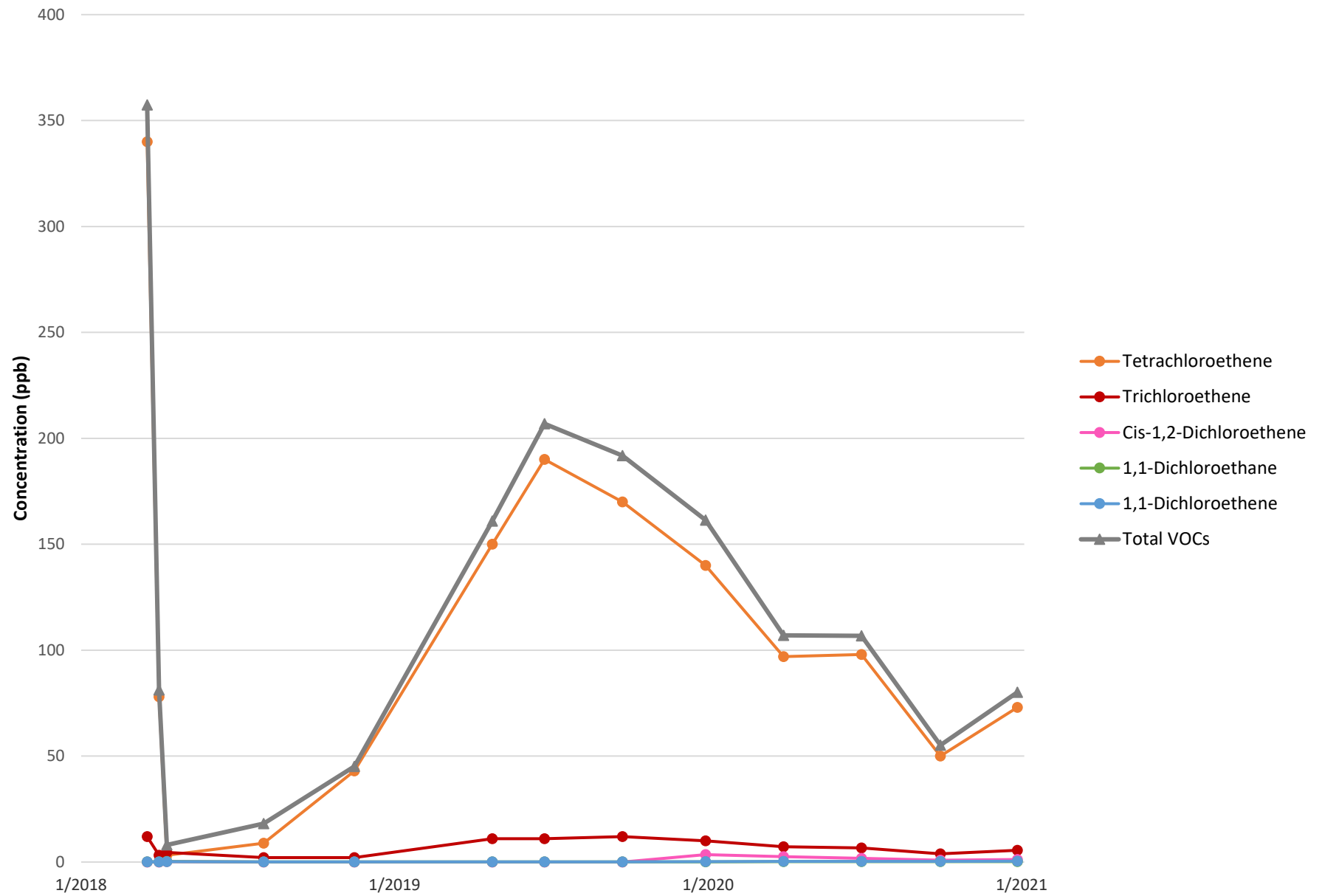
EX-1A



EX-1B



EX-1C



EX-1D

