

November 10, 2022

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

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

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

Dear Mr. Klein,

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID Nos. 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in October 2022 for the onsite air sparge/soil vapor extraction (AS/SVE) and groundwater extraction systems.

#### **Air Sparge/Soil Vapor Extraction System – Operable Unit 1**

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). During the month of October, no alarm calls were received.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on October 19 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 [14,614 µg/m<sup>3</sup>]) continue to indicate significant mass extraction.
  - Effluent concentrations are below the carbon exchange indicator concentrations but indicate breakthrough has begun; a carbon exchange is being scheduled for late 2022.

| Frost Street Sites<br>Effluent Compliance |                                                          |                                                                                                |                                                                   |
|-------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| System Flow Rate =                        |                                                          | 800 ft <sup>3</sup> /min                                                                       |                                                                   |
| Compound                                  | Annual Mass<br>Emission Limit <sup>1</sup><br>(lbs/year) | Carbon Exchange<br>Required<br>Indicator<br>Concentration<br>(µg/m <sup>3</sup> ) <sup>2</sup> | October 2022<br>Effluent<br>Concentration<br>(µg/m <sup>3</sup> ) |
| Trichloroethene                           | 500                                                      | 19,000                                                                                         | 1,270                                                             |
| Tetrachloroethene                         | 1,000                                                    | 38,000                                                                                         | 2,260                                                             |
| Vinyl Chloride                            | 100                                                      | 3,800                                                                                          | ND                                                                |
| Cis-1,2-Dichloroethene <sup>3</sup>       | 100                                                      | 3,800                                                                                          | 1,630                                                             |

**Notes:**

ft/min cubic feet per minute

lbs/year pounds per year

µg/m<sup>3</sup> 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 October.

Because September quarterly sample results indicated samples from EX-1A and EX-1B were likely swapped, they were resampled on October 7 and analyzed for VOCs. These results confirm the September samples were swapped, and the assumed corrected results presented in the September monthly report are accurate. Full results for these samples are provided in Appendix C.

| Groundwater Extraction System<br>Individual Extraction Well Data – Volatile Organic Compounds (ppb) |                      |                             |                      |                             |
|-----------------------------------------------------------------------------------------------------|----------------------|-----------------------------|----------------------|-----------------------------|
| Analyte                                                                                             | EX-1A<br>(September) | EX-1A<br>(October resample) | EX-1B<br>(September) | EX-1B<br>(October resample) |
| cis-1,2-Dichloroethene                                                                              | 2.2                  | 2.3                         | 8.4                  | 9.6                         |
| Tetrachloroethene                                                                                   | 40                   | 33                          | 230                  | 200                         |
| Trichloroethene                                                                                     | 3.9                  | 3.2                         | 8.7                  | 8.6                         |
| <b>Total VOCs</b>                                                                                   | <b>46.1</b>          | <b>38.5</b>                 | <b>247.1</b>         | <b>218.2</b>                |

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

## Groundwater Monitoring

The third quarter groundwater sampling event was performed the week of August 30. The electronic data deliverable was submitted to NYSDEC on October 13, 2022. Results will be submitted in the forthcoming *2022 Comprehensive Groundwater Monitoring 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](mailto:astark@ensafe.com).

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

### Attachments

|         |                              |                                                                                                            |
|---------|------------------------------|------------------------------------------------------------------------------------------------------------|
| Copies: | A. Tamuno, Esq., NYSDEC      | <i>Via email to <a href="mailto:amtamuno@gw.dec.state.ny.us">amtamuno@gw.dec.state.ny.us</a></i>           |
|         | C. Bethoney, NYSDOH          | <i>Via email to <a href="mailto:charlotte.bethoney@health.ny.gov">charlotte.bethoney@health.ny.gov</a></i> |
|         | J. Nealon, NYSDOH            | <i>Via email to <a href="mailto:jacquelyn.nealon@health.ny.gov">jacquelyn.nealon@health.ny.gov</a></i>     |
|         | R. Putnam, NCDOH             | <i>Via email to <a href="mailto:rputnam@nassaucountyny.gov">rputnam@nassaucountyny.gov</a></i>             |
|         | J. Vazquez, U.S. EPA         | <i>Via email to <a href="mailto:vazquez.julio@epa.gov">vazquez.julio@epa.gov</a></i>                       |
|         | T. Pupilla, Sanders Equities | <i>Via email to <a href="mailto:tpupilla@sandersequities.com">tpupilla@sandersequities.com</a></i>         |
|         | J. Privitera, Esq.           | <i>Via email to <a href="mailto:jprivitera@woh.com">jprivitera@woh.com</a></i>                             |
|         | P. Coop, EnSafe              | <i>Via email to <a href="mailto:pcoop@ensafe.com">pcoop@ensafe.com</a></i>                                 |
|         | J. Wilkinson, Envirotrac     | <i>Via email to <a href="mailto:jamesw@envirotrac.com">jamesw@envirotrac.com</a></i>                       |

**Appendix A**  
**AS/SVE System Operation and Maintenance Logs**

**Ensafe-Frost Street**  
**101 Frost Street**  
**Westbury, NY**

**5 Old Dock Road, Yaphank, NY 11980  
(631)924-3001, Fax (631)924-5001**

**Date:** 18-Oct  
**Weather / Temp:** Clear / 50 DEG  
**Technician / Operator:** JW

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

| System Status                             |                 |                 |                  |            |                                                  |                 |                 |                  |            |
|-------------------------------------------|-----------------|-----------------|------------------|------------|--------------------------------------------------|-----------------|-----------------|------------------|------------|
|                                           | Arrival         |                 | Departure        |            |                                                  | Arrival         |                 | Departure        |            |
| SVE Blower 1 (ON/OFF)                     | OFF             |                 | OFF              |            | AS Compressor 1 (ON/OFF)                         | ON              |                 | ON               |            |
| SVE Blower 2 (ON/OFF)                     | ON              |                 | ON               |            | AS Compressor 2 (ON/OFF)                         | OFF             |                 | OFF              |            |
|                                           |                 |                 |                  |            | Air Cooler (ON/OFF)                              | ON              |                 | ON               |            |
| Soil Vapor Extraction System              |                 |                 |                  |            |                                                  |                 |                 |                  |            |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4300            |                 | 844              |            | Blower 1 Total Runtime (hrs)                     | 67,860.0        |                 |                  |            |
| Blower 1 Fresh Air Valve Open (%)         | 0               |                 |                  |            | Blower 2 Total Runtime (hrs)                     | 67,187.4        |                 |                  |            |
| Blower 2 Fresh Air Valve Open (%)         | 0               |                 |                  |            | Blower 1 Air Filter Differential Pressure ("H2O) | 0               |                 |                  |            |
| Blower Inlet Vacuum ("H2O)                | 53              |                 |                  |            | Blower 2 Air Filter Differential Pressure ("H2O) | 0               |                 |                  |            |
| Moisture Separator Vacuum ("Hg)           | 3.5             |                 |                  |            | VGAC-1 Influent PID (ppm)                        | 2.0             |                 |                  |            |
| VGAC-1 Influent Vacuum ("H2O)             | 46              |                 |                  |            | VGAC-1 Effluent PID (ppm)                        | 6.0             |                 |                  |            |
| VGAC-1 Effluent Vacuum ("H2O)             | 40              |                 |                  |            | VGAC-2 Influent PID (ppm)                        | 2.0             |                 |                  |            |
| VGAC-2 Influent Vacuum ("H2O)             | 41              |                 |                  |            | VGAC-2 Effluent PID (ppm)                        | 6.0             |                 |                  |            |
| VGAC-2 Effluent Vacuum ("H2O)             | 38              |                 |                  |            | VGAC-3 Influent PID (ppm)                        | 6.0             |                 |                  |            |
| VGAC-3 Influent Vacuum ("H2O)             | 52              |                 |                  |            | VGAC-3 Effluent PID (ppm)                        | 1.0             |                 |                  |            |
| VGAC-3 Effluent Vacuum ("H2O)             | 55              |                 |                  |            | Blower Effluent PID (ppm)                        | 1.0             |                 |                  |            |
| VGAC-3 Influent Temp (DegF)               |                 |                 |                  |            | Transfer Pump Total Runtime (hrs)                | 25,076.8        |                 |                  |            |
| Blower Effluent Pressure ("H2O)           | 8               |                 |                  |            | Condensate Storage Tank Level (gal)              | 100             |                 |                  |            |
| SVE Manifold Legs - Vacuum/Flow Rate/PID  |                 |                 |                  |            |                                                  |                 |                 |                  |            |
|                                           | <u>Vacuum</u>   | <u>Velocity</u> | <u>Flow Rate</u> | <u>PID</u> |                                                  | <u>Vacuum</u>   | <u>Velocity</u> | <u>Flow Rate</u> | <u>PID</u> |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)            | 44              | 6700            | 146              | 2.0        | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)                   | 37              | 4200            | 92               | 0.0        |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)            | 46              | 4000            | 87               | 3.0        | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)                   | 47              | 3000            | 65               | 0.0        |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)            | 37              | 4800            | 105              | 0.0        | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)                  | 43              | 4700            | 103              | 6.0        |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)           | 35              | 4200            | 92               | 0.0        | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)                   | 38              | 3000            | 65               | 0.0        |
| Air Sparge System                         |                 |                 |                  |            |                                                  |                 |                 |                  |            |
| Compressor 1 Pressure (psi)               | 15.5            |                 |                  |            | Compressor 2 Pressure (psi)                      | Off             |                 |                  |            |
| Compressor 1 Runtime (hrs)                | 13,220.5        |                 |                  |            | Compressor 2 Temperature (degF)                  | Off             |                 |                  |            |
| Air Cooler Inlet Temperature (degF)       | 190             |                 |                  |            | Compressor 2 Regulator Pressure (psi)            | Off             |                 |                  |            |
| Air Cooler Outlet Temperature (degF)      | 68              |                 |                  |            | Compressor 2 Runtime (hrs)                       | 40,734          |                 |                  |            |
| Air Cooler Inlet Pressure (psi)           | 18              |                 |                  |            | AS Manifold Temperature (degF)                   | 60              |                 |                  |            |
| Air Cooler Outlet Pressure (psi)          | 17.5            |                 |                  |            | AS Manifold Pressure                             | 15              |                 |                  |            |
| AS Manifold Legs - Pressure/Flow Rate     |                 |                 |                  |            |                                                  |                 |                 |                  |            |
|                                           | <u>Pressure</u> |                 | <u>Flow Rate</u> |            |                                                  | <u>Pressure</u> |                 | <u>Flow Rate</u> |            |
| AS-1 (psi)/(cfm)                          | 3               |                 | 10               |            | AS-11 (psi)/(cfm)                                | 15              |                 | 4                |            |
| AS-2 (psi)/(cfm)                          | 0               |                 | 10               |            | AS-12B (psi)/(cfm)                               | 16              |                 | 11               |            |
| AS-3 (psi)/(cfm)                          | 0               |                 | 8                |            | AS-13B (psi)/(cfm)                               | 15              |                 | 11               |            |
| AS-4 (psi)/(cfm)                          | 14              |                 | 0                |            | AS-14 (psi)/(cfm)                                | 16              |                 | 11               |            |
| AS-5 (psi)/(cfm)                          | 17              |                 | 8                |            | AS-15 (psi)/(cfm)                                | 15              |                 | 11               |            |
| AS-6 (psi)/(cfm)                          | 17              |                 | 10               |            | AS-16B (psi)/(cfm)                               | 15              |                 | 10               |            |
| AS-7 (psi)/(cfm)                          | 18              |                 | 8                |            | AS-17 (psi)/(cfm)                                | 16              |                 | 9                |            |
| AS-8 (psi)/(cfm)                          | 15              |                 | 10               |            | AS-18 (psi)/(cfm)                                | 15              |                 | 10               |            |
| AS-9 (psi)/(cfm)                          | 17              |                 | 9                |            | AS-19 (psi)/(cfm)                                | 15              |                 | 5                |            |
| AS-10B (psi)/(cfm)                        | 15              |                 | 10               |            |                                                  |                 |                 |                  |            |

Notes, Comments &amp; Observations:

**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:** 18-Oct  
**Weather / Temp:** Clear / 50 DEG  
**Technician / Operator:** JW

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

| Maintenance Item                    | Perform     | Completed (yes/no) | Comments               |
|-------------------------------------|-------------|--------------------|------------------------|
| <b>SVE Blower B-1</b>               |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | N                  | Oil changed on 4/27/22 |
| -Inspect Air Filter                 | Weekly      | Y                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| -Inspect Belts                      | Weekly      | Y                  |                        |
| <b>SVE Blower B-2</b>               |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | N                  | Oil changed on 4/27/22 |
| -Inspect Air Filter                 | Weekly      | Y                  |                        |
| -Amp Draw                           | Quarterly   | Y                  |                        |
| -Inspect Belts                      | Weekly      | Y                  |                        |
| <b>SVE Piping</b>                   |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Valves                             | Weekly      | Y                  |                        |
| <b>Phase Separator/Storage Tank</b> |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Check Level Switches               | As Required | Y                  |                        |
| -Inspect water storage tank         | Weekly      | Y                  |                        |
| -Pump water to sewer drain          | As Required | N                  |                        |
| <b>AS Compressor 1</b>              |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | N                  | Oil changed on 7/15/22 |
| -Inspect Filters                    | Weekly      | Y                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| <b>AS Compressor 2</b>              |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | N                  |                        |
| -Inspect Filters                    | Weekly      | N                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| <b>Air Cooler</b>                   |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Inspect Filters                    | Weekly      | Y                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| <b>AS Piping</b>                    |             |                    |                        |
| -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**



Tuesday, October 25, 2022

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

Project ID: ENSAFE-WESTBURY  
SDG ID: GCM69072  
Sample ID#s: CM69072 - CM69073

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

October 25, 2022

SDG I.D.: GCM69072

Project ID: ENSAFE-WESTBURY

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| Client Id    | Lab Id  | Matrix |
|--------------|---------|--------|
| SVE EFFLUENT | CM69072 | AIR    |
| SVE INFLUENT | CM69073 | 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

October 25, 2022

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

### Sample Information

Matrix: AIR  
Location Code: ENVIOTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 729

### Custody Information

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

### Date

10/19/22 10:41  
10/24/22 18:55

### Time

### Laboratory Data

SDG ID: GCM69072  
Phoenix ID: CM69072

Project ID: ENSAFE-WESTBURY  
Client ID: SVE EFFLUENT

| Parameter                      | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By  | Dilution |
|--------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| <b><u>Volatiles (TO15)</u></b> |                |            |                 |             |           |     |          |
| 1,1,1,2-Tetrachloroethane      | ND             | 0.729      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,1-Trichloroethane          | 2.10           | 0.917      | 11.5            | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,2,2-Tetrachloroethane      | ND             | 0.729      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,2-Trichloroethane          | ND             | 0.917      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1-Dichloroethane             | ND             | 1.24       | ND              | 5.02        | 10/25/22  | KCA | 5        |
| 1,1-Dichloroethene             | ND             | 0.252      | ND              | 1.00        | 10/25/22  | KCA | 5        |
| 1,2,4-Trichlorobenzene         | ND             | 0.674      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2,4-Trimethylbenzene         | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 1,2-Dibromoethane(EDB)         | ND             | 0.651      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2-Dichloroethane             | ND             | 1.24       | ND              | 5.02        | 10/25/22  | KCA | 5        |
| 1,2-dichloropropane            | ND             | 1.08       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| 1,2-Dichlorotetrafluoroethane  | ND             | 0.716      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,3,5-Trimethylbenzene         | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 1,3-Butadiene                  | ND             | 2.26       | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,3-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,4-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,4-Dioxane                    | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 2-Hexanone(MBK)                | ND             | 1.22       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| 4-Ethyltoluene                 | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 4-Isopropyltoluene             | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 4-Methyl-2-pentanone(MIBK)     | ND             | 1.22       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| Acetone                        | 4.11           | 2.11       | 9.8             | 5.01        | 10/25/22  | KCA | 5        |
| Acrylonitrile                  | ND             | 2.31       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| Benzene                        | ND             | 1.57       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| Benzyl chloride                | ND             | 0.966      | ND              | 5.00        | 10/25/22  | KCA | 5        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By  | Dilution |   |
|------------------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|---|
| Bromodichloromethane                     | ND             | 0.747      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Bromoform                                | ND             | 0.484      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Bromomethane                             | ND             | 1.29       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Carbon Disulfide                         | ND             | 1.61       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Carbon Tetrachloride                     | 0.420          | 0.159      | 2.64            | 1.00        | 10/25/22  | KCA | 5        |   |
| Chlorobenzene                            | ND             | 1.09       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Chloroethane                             | ND             | 1.90       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Chloroform                               | ND             | 1.02       | ND              | 4.98        | 10/25/22  | KCA | 5        |   |
| Chloromethane                            | ND             | 2.42       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Cis-1,2-Dichloroethene                   | 411            | 0.757      | 1630            | 3.00        | 10/25/22  | KCA | 15       |   |
| cis-1,3-Dichloropropene                  | ND             | 1.10       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Cyclohexane                              | ND             | 1.45       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Dibromochloromethane                     | ND             | 0.587      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Dichlorodifluoromethane                  | ND             | 1.01       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Ethanol                                  | 6.53           | 2.66       | 12.3            | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Ethyl acetate                            | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Ethylbenzene                             | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Heptane                                  | ND             | 1.22       | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Hexachlorobutadiene                      | ND             | 0.469      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Hexane                                   | ND             | 1.42       | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Isopropylalcohol                         | ND             | 2.04       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Isopropylbenzene                         | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| m,p-Xylene                               | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Methyl Ethyl Ketone                      | ND             | 1.70       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Methyl tert-butyl ether(MTBE)            | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Methylene Chloride                       | ND             | 4.32       | ND              | 15.0        | 10/25/22  | KCA | 5        |   |
| n-Butylbenzene                           | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        | 1 |
| o-Xylene                                 | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Propylene                                | ND             | 2.91       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| sec-Butylbenzene                         | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        | 1 |
| Styrene                                  | ND             | 1.17       | ND              | 4.98        | 10/25/22  | KCA | 5        |   |
| Tetrachloroethene                        | 333            | 0.553      | 2260            | 3.75        | 10/25/22  | KCA | 15       |   |
| Tetrahydrofuran                          | ND             | 1.70       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Toluene                                  | ND             | 1.33       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Trans-1,2-Dichloroethene                 | 3.28           | 1.26       | 13.0            | 4.99        | 10/25/22  | KCA | 5        |   |
| trans-1,3-Dichloropropene                | ND             | 1.10       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Trichloroethene                          | 237            | 0.555      | 1270            | 2.98        | 10/25/22  | KCA | 15       |   |
| Trichlorofluoromethane                   | ND             | 0.891      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Trichlorotrifluoroethane                 | ND             | 0.653      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Vinyl Chloride                           | ND             | 0.390      | ND              | 1.00        | 10/25/22  | KCA | 5        |   |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |                 |             |           |     |          |   |
| % Bromofluorobenzene (5x)                | 96             | %          | 96              | %           | 10/25/22  | KCA | 5        |   |
| % IS-1,4-Difluorobenzene (5x)            | 98             | %          | 98              | %           | 10/25/22  | KCA | 5        |   |
| % IS-Bromochloromethane (5x)             | 102            | %          | 102             | %           | 10/25/22  | KCA | 5        |   |
| % IS-Chlorobenzene-d5 (5x)               | 105            | %          | 105             | %           | 10/25/22  | KCA | 5        |   |
| % Bromofluorobenzene (15x)               | 96             | %          | 96              | %           | 10/25/22  | KCA | 15       |   |
| % IS-1,4-Difluorobenzene (15x)           | 100            | %          | 100             | %           | 10/25/22  | KCA | 15       |   |
| % IS-Bromochloromethane (15x)            | 104            | %          | 104             | %           | 10/25/22  | KCA | 15       |   |
| % IS-Chlorobenzene-d5 (15x)              | 106            | %          | 106             | %           | 10/25/22  | KCA | 15       |   |

| Parameter | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By | Dilution |
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|

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**

**October 25, 2022**

**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

October 25, 2022

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

## Sample Information

Matrix: AIR  
Location Code: ENVIROTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 794

## Custody Information

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

## Date

10/19/22 10:46  
10/24/22 18:55

## Time

Project ID: ENSAFE-WESTBURY  
Client ID: SVE INFLUENT

## Laboratory Data

SDG ID: GCM69072  
Phoenix ID: CM69073

| Parameter                     | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By  | Dilution |
|-------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| <b>Volatiles (TO15)</b>       |                |            |                 |             |           |     |          |
| 1,1,1,2-Tetrachloroethane     | ND             | 0.729      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,1-Trichloroethane         | ND             | 0.917      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,2,2-Tetrachloroethane     | ND             | 0.729      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1,2-Trichloroethane         | ND             | 0.917      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,1-Dichloroethane            | ND             | 1.24       | ND              | 5.02        | 10/25/22  | KCA | 5        |
| 1,1-Dichloroethene            | ND             | 0.252      | ND              | 1.00        | 10/25/22  | KCA | 5        |
| 1,2,4-Trichlorobenzene        | ND             | 0.674      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2,4-Trimethylbenzene        | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 1,2-Dibromoethane(EDB)        | ND             | 0.651      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2-Dichlorobenzene           | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,2-Dichloroethane            | ND             | 1.24       | ND              | 5.02        | 10/25/22  | KCA | 5        |
| 1,2-dichloropropane           | ND             | 1.08       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| 1,2-Dichlorotetrafluoroethane | ND             | 0.716      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,3,5-Trimethylbenzene        | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 1,3-Butadiene                 | ND             | 2.26       | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,3-Dichlorobenzene           | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,4-Dichlorobenzene           | ND             | 0.832      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 1,4-Dioxane                   | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 2-Hexanone(MBK)               | ND             | 1.22       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| 4-Ethyltoluene                | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| 4-Isopropyltoluene            | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        |
| 4-Methyl-2-pentanone(MIBK)    | ND             | 1.22       | ND              | 4.99        | 10/25/22  | KCA | 5        |
| Acetone                       | 3.53           | 2.11       | 8.38            | 5.01        | 10/25/22  | KCA | 5        |
| Acrylonitrile                 | ND             | 2.31       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| Benzene                       | ND             | 1.57       | ND              | 5.01        | 10/25/22  | KCA | 5        |
| Benzyl chloride               | ND             | 0.966      | ND              | 5.00        | 10/25/22  | KCA | 5        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By  | Dilution |   |
|------------------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|---|
| Bromodichloromethane                     | ND             | 0.747      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Bromoform                                | ND             | 0.484      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Bromomethane                             | ND             | 1.29       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Carbon Disulfide                         | ND             | 1.61       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Carbon Tetrachloride                     | ND             | 0.159      | ND              | 1.00        | 10/25/22  | KCA | 5        |   |
| Chlorobenzene                            | ND             | 1.09       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Chloroethane                             | ND             | 1.90       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Chloroform                               | ND             | 1.02       | ND              | 4.98        | 10/25/22  | KCA | 5        |   |
| Chloromethane                            | ND             | 2.42       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Cis-1,2-Dichloroethene                   | 69.5           | 0.252      | 275             | 1.00        | 10/25/22  | KCA | 5        |   |
| cis-1,3-Dichloropropene                  | ND             | 1.10       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Cyclohexane                              | ND             | 1.45       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Dibromochloromethane                     | ND             | 0.587      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Dichlorodifluoromethane                  | ND             | 1.01       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Ethanol                                  | 32.6           | 2.66       | 61.4            | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Ethyl acetate                            | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Ethylbenzene                             | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Heptane                                  | ND             | 1.22       | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Hexachlorobutadiene                      | ND             | 0.469      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Hexane                                   | ND             | 1.42       | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Isopropylalcohol                         | ND             | 2.04       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Isopropylbenzene                         | ND             | 1.02       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| m,p-Xylene                               | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Methyl Ethyl Ketone                      | ND             | 1.70       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Methyl tert-butyl ether(MTBE)            | ND             | 1.39       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Methylene Chloride                       | ND             | 4.32       | ND              | 15.0        | 10/25/22  | KCA | 5        |   |
| n-Butylbenzene                           | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        | 1 |
| o-Xylene                                 | ND             | 1.15       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Propylene                                | ND             | 2.91       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| sec-Butylbenzene                         | ND             | 0.911      | ND              | 5.00        | 10/25/22  | KCA | 5        | 1 |
| Styrene                                  | ND             | 1.17       | ND              | 4.98        | 10/25/22  | KCA | 5        |   |
| Tetrachloroethene                        | 2020           | 6.64       | 13700           | 45.0        | 10/25/22  | KCA | 180      |   |
| Tetrahydrofuran                          | ND             | 1.70       | ND              | 5.01        | 10/25/22  | KCA | 5        | 1 |
| Toluene                                  | ND             | 1.33       | ND              | 5.01        | 10/25/22  | KCA | 5        |   |
| Trans-1,2-Dichloroethene                 | ND             | 1.26       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| trans-1,3-Dichloropropene                | ND             | 1.10       | ND              | 4.99        | 10/25/22  | KCA | 5        |   |
| Trichloroethene                          | 119            | 0.185      | 639             | 0.99        | 10/25/22  | KCA | 5        |   |
| Trichlorofluoromethane                   | ND             | 0.891      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Trichlorotrifluoroethane                 | ND             | 0.653      | ND              | 5.00        | 10/25/22  | KCA | 5        |   |
| Vinyl Chloride                           | ND             | 0.390      | ND              | 1.00        | 10/25/22  | KCA | 5        |   |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |                 |             |           |     |          |   |
| % Bromofluorobenzene (5x)                | 100            | %          | 100             | %           | 10/25/22  | KCA | 5        |   |
| % IS-1,4-Difluorobenzene (5x)            | 89             | %          | 89              | %           | 10/25/22  | KCA | 5        |   |
| % IS-Bromochloromethane (5x)             | 94             | %          | 94              | %           | 10/25/22  | KCA | 5        |   |
| % IS-Chlorobenzene-d5 (5x)               | 97             | %          | 97              | %           | 10/25/22  | KCA | 5        |   |
| % Bromofluorobenzene (180x)              | 96             | %          | 96              | %           | 10/25/22  | KCA | 180      |   |
| % IS-1,4-Difluorobenzene (180x)          | 94             | %          | 94              | %           | 10/25/22  | KCA | 180      |   |
| % IS-Bromochloromethane (180x)           | 98             | %          | 98              | %           | 10/25/22  | KCA | 180      |   |
| % IS-Chlorobenzene-d5 (180x)             | 101            | %          | 101             | %           | 10/25/22  | KCA | 180      |   |

| Parameter | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By | Dilution |
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|
|-----------|----------------|------------|-----------------|-------------|-----------|----|----------|

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.

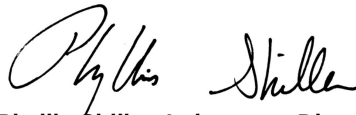
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL  
BRL=Below Reporting Level L=Biased Low

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:**

Elevated reporting limits have been reported due to the presence of reported target compounds in the TO15 list above the calibration. Sample was run at an initial dilution.

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

October 25, 2022

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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## QA/QC Report

October 25, 2022

### QA/QC Data

SDG I.D.: GCM69072

| Parameter                                                                                  | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|--------------------------------------------------------------------------------------------|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| QA/QC Batch 648900 (ppbv), QC Sample No: CM68088 (CM69072 (5X, 15X) , CM69073 (5X, 180X) ) |             |                   |              |                    |          |                           |                        |                          |                       |            |                    |                    |
| <b>Volatiles</b>                                                                           |             |                   |              |                    |          |                           |                        |                          |                       |            |                    |                    |
| 1,1,1,2-Tetrachloroethane                                                                  | ND          | 0.150             | ND           | 1.03               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,1-Trichloroethane                                                                      | ND          | 0.180             | ND           | 0.98               | 99       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2,2-Tetrachloroethane                                                                  | ND          | 0.150             | ND           | 1.03               | 75       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2-Trichloroethane                                                                      | ND          | 0.180             | ND           | 0.98               | 91       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethane                                                                         | ND          | 0.250             | ND           | 1.01               | 105      | 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               | 140      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trimethylbenzene                                                                     | ND          | 0.200             | ND           | 0.98               | 85       | 2.87                      | 3.09                   | 0.584                    | 0.629                 | NC         | 70 - 130           | 25                 |
| 1,2-Dibromoethane(EDB)                                                                     | ND          | 0.130             | ND           | 1.00               | 85       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorobenzene                                                                        | ND          | 0.170             | ND           | 1.02               | 85       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichloroethane                                                                         | ND          | 0.250             | ND           | 1.01               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-dichloropropane                                                                        | ND          | 0.220             | ND           | 1.02               | 100      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorotetrafluoroethane                                                              | ND          | 0.140             | ND           | 0.98               | 97       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3,5-Trimethylbenzene                                                                     | ND          | 0.200             | ND           | 0.98               | 86       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Butadiene                                                                              | ND          | 0.450             | ND           | 0.99               | 103      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Dichlorobenzene                                                                        | ND          | 0.170             | ND           | 1.02               | 82       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dichlorobenzene                                                                        | ND          | 0.170             | ND           | 1.02               | 82       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dioxane                                                                                | ND          | 0.280             | ND           | 1.01               | 95       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 2-Hexanone(MBK)                                                                            | ND          | 0.240             | ND           | 0.98               | 93       | 2.79                      | ND                     | 0.682                    | ND                    | NC         | 70 - 130           | 25                 |
| 4-Ethyltoluene                                                                             | ND          | 0.200             | ND           | 0.98               | 83       | 1.98                      | 2.07                   | 0.403                    | 0.421                 | NC         | 70 - 130           | 25                 |
| 4-Isopropyltoluene                                                                         | ND          | 0.180             | ND           | 0.99               | 85       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Methyl-2-pentanone(MIBK)                                                                 | ND          | 0.240             | ND           | 0.98               | 89       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                                                                                    | ND          | 0.420             | ND           | 1.00               | 84       | 4.75                      | 4.94                   | 2.00                     | 2.08                  | NC         | 70 - 130           | 25                 |
| Acrylonitrile                                                                              | ND          | 0.460             | ND           | 1.00               | 91       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzene                                                                                    | ND          | 0.310             | ND           | 0.99               | 96       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzyl chloride                                                                            | ND          | 0.190             | ND           | 0.98               | 81       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromodichloromethane                                                                       | ND          | 0.150             | ND           | 1.00               | 101      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromoform                                                                                  | ND          | 0.097             | ND           | 1.00               | 86       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromomethane                                                                               | ND          | 0.260             | ND           | 1.01               | 94       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Disulfide                                                                           | ND          | 0.320             | ND           | 1.00               | 95       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride                                                                       | ND          | 0.032             | ND           | 0.20               | 99       | 0.53                      | 0.53                   | 0.084                    | 0.085                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                                                                              | ND          | 0.220             | ND           | 1.01               | 83       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroethane                                                                               | ND          | 0.380             | ND           | 1.00               | 105      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroform                                                                                 | ND          | 0.200             | ND           | 0.98               | 102      | 23.0                      | 23.4                   | 4.72                     | 4.80                  | 1.7        | 70 - 130           | 25                 |
| Chloromethane                                                                              | ND          | 0.480             | ND           | 0.99               | 85       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene                                                                     | ND          | 0.050             | ND           | 0.20               | 107      | 0.41                      | 0.39                   | 0.103                    | 0.099                 | NC         | 70 - 130           | 25                 |
| cis-1,3-Dichloropropene                                                                    | ND          | 0.220             | ND           | 1.00               | 96       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cyclohexane                                                                                | ND          | 0.290             | ND           | 1.00               | 92       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dibromochloromethane                                                                       | ND          | 0.120             | ND           | 1.02               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane                                                                    | ND          | 0.200             | ND           | 0.99               | 105      | 2.38                      | 2.36                   | 0.481                    | 0.478                 | NC         | 70 - 130           | 25                 |
| Ethanol                                                                                    | ND          | 0.530             | ND           | 1.00               | 117      | 6.74                      | 7.65                   | 3.58                     | 4.06                  | 12.6       | 70 - 130           | 25                 |



# QA/QC Data

SDG I.D.: GCM69072

| Parameter                     | Blk<br>ppbv | Blk<br>RL<br>ppbv | Blk<br>ug/m3 | Blk<br>RL<br>ug/m3 | LCS<br>% | Sample<br>Result<br>ug/m3 | Sample<br>Dup<br>ug/m3 | Sample<br>Result<br>ppbv | Sample<br>Dup<br>ppbv | DUP<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| Ethyl acetate                 | ND          | 0.280             | ND           | 1.01               | 96       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Ethylbenzene                  | ND          | 0.230             | ND           | 1.00               | 89       | ND                        | 1.00                   | ND                       | 0.231                 | NC         | 70 - 130           | 25                 |
| Heptane                       | ND          | 0.240             | ND           | 0.98               | 93       | 0.98                      | ND                     | 0.240                    | ND                    | NC         | 70 - 130           | 25                 |
| Hexachlorobutadiene           | ND          | 0.094             | ND           | 1.00               | 152      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexane                        | ND          | 0.280             | ND           | 0.99               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Isopropylalcohol              | ND          | 0.410             | ND           | 1.01               | 84       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Isopropylbenzene              | ND          | 0.200             | ND           | 0.98               | 90       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| m,p-Xylene                    | ND          | 0.230             | ND           | 1.00               | 92       | 4.26                      | 4.26                   | 0.982                    | 0.981                 | NC         | 70 - 130           | 25                 |
| Methyl Ethyl Ketone           | ND          | 0.340             | ND           | 1.00               | 90       | 1.84                      | 1.83                   | 0.623                    | 0.620                 | NC         | 70 - 130           | 25                 |
| Methyl tert-butyl ether(MTBE) | ND          | 0.280             | ND           | 1.01               | 101      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methylene Chloride            | ND          | 0.860             | ND           | 2.99               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| n-Butylbenzene                | ND          | 0.180             | ND           | 0.99               | 93       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                      | ND          | 0.230             | ND           | 1.00               | 91       | 1.54                      | 1.57                   | 0.355                    | 0.361                 | NC         | 70 - 130           | 25                 |
| Propylene                     | ND          | 0.580             | ND           | 1.00               | 90       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| sec-Butylbenzene              | ND          | 0.180             | ND           | 0.99               | 89       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Styrene                       | ND          | 0.230             | ND           | 0.98               | 83       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Tetrachloroethene             | ND          | 0.037             | ND           | 0.25               | 97       | 446                       | 468                    | 65.8                     | 69.1                  | 4.9        | 70 - 130           | 25                 |
| Tetrahydrofuran               | ND          | 0.340             | ND           | 1.00               | 95       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Toluene                       | ND          | 0.270             | ND           | 1.02               | 96       | 2.63                      | 2.78                   | 0.697                    | 0.738                 | NC         | 70 - 130           | 25                 |
| Trans-1,2-Dichloroethene      | ND          | 0.250             | ND           | 0.99               | 106      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| trans-1,3-Dichloropropene     | ND          | 0.220             | ND           | 1.00               | 94       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichloroethene               | ND          | 0.037             | ND           | 0.20               | 92       | 6.61                      | 6.55                   | 1.23                     | 1.22                  | 0.8        | 70 - 130           | 25                 |
| Trichlorofluoromethane        | ND          | 0.180             | ND           | 1.01               | 103      | 1.29                      | 1.39                   | 0.230                    | 0.247                 | NC         | 70 - 130           | 25                 |
| Trichlorotrifluoroethane      | ND          | 0.130             | ND           | 1.00               | 85       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                | ND          | 0.078             | ND           | 0.20               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene          | 96          | %                 | 96           | %                  | 99       | 99                        | 102                    | 99                       | 102                   | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene      | 109         | %                 | 109          | %                  | 107      | 99                        | 94                     | 99                       | 94                    | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane       | 109         | %                 | 109          | %                  | 105      | 102                       | 97                     | 102                      | 97                    | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5         | 112         | %                 | 112          | %                  | 115      | 104                       | 97                     | 104                      | 97                    | 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  
October 25, 2022

Tuesday, October 25, 2022

Criteria: None  
State: NY

Sample Criteria Exceedances Report  
GCM69072 - ENVIROTR

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL<br>Criteria | Analysis<br>Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

\*\*\* 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

October 25, 2022

SDG I.D.: GCM69072

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

### **AIRSIM**

**CHEM20 10/24/22-1:** CM69072, CM69073

The following Continuing Calibration compounds did not meet % deviation criteria: 1,2,4-Trichlorobenzene(sim) 47%L (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,2,4-Trichlorobenzene(sim) 47%L (30%)



**Appendix C**  
**Groundwater Extraction System Water Samples**  
**Laboratory Analytical Results**



Friday, October 21, 2022

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

Project ID: FROST STREET-OU2  
SDG ID: GCM58941  
Sample ID#s: CM58941 - CM58942

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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## Sample Id Cross Reference

October 21, 2022

SDG I.D.: GCM58941

Project ID: FROST STREET-OU2

---

| Client Id | Lab Id  | Matrix       |
|-----------|---------|--------------|
| EX-1A     | CM58941 | GROUND WATER |
| EX-1B     | CM58942 | 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

October 21, 2022

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: SW  
Analyzed by: see "By" below

## Date

10/07/22  
10/11/22

## Time

13:25  
15:55

## Laboratory Data

SDG ID: GCM58941  
Phoenix ID: CM58941

Project ID: FROST STREET-OU2  
Client ID: EX-1A

| Parameter                      | Result | RL/<br>PQL | LOD/<br>MDL | Units | Dilution | Date/Time | By | Reference |
|--------------------------------|--------|------------|-------------|-------|----------|-----------|----|-----------|
| <b>Volatiles</b>               |        |            |             |       |          |           |    |           |
| 1,1,1-Trichloroethane          | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,1,2,2-tetrachloroethane      | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,1,2-Trichloroethane          | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,1-Dichloroethane             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,1-Dichloroethene             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,2-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,2-Dichloroethane             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,2-Dichloropropane            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,3-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| 1,4-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Benzene                        | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Bromodichloromethane           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Bromoform                      | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Bromomethane                   | ND     | 0.50       | 0.50        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Carbon disulfide               | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Carbon tetrachloride           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Chlorobenzene                  | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Chloroethane                   | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Chloroform                     | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Chloromethane                  | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| cis-1,2-Dichloroethene         | 2.3    | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| cis-1,3-Dichloropropene        | ND     | 0.40       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Dibromochloromethane           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Ethylbenzene                   | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| m&p-Xylene                     | ND     | 0.50       | 0.42        | ug/L  | 1        | 10/11/22  | HM | E624.1    |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0        | 0.50        | ug/L  | 1        | 10/11/22  | HM | E624.1    |



| Parameter                      | Result | RL/<br>PQL | LOD/<br>MDL | Units | Dilution | Date/Time | By | Reference  |
|--------------------------------|--------|------------|-------------|-------|----------|-----------|----|------------|
| Methylene chloride             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Naphthalene                    | ND     | 1.0        | 1.0         | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| o-Xylene                       | ND     | 0.50       | 0.45        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Tetrachloroethene              | 33     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Toluene                        | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| trans-1,2-Dichloroethene       | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| trans-1,3-Dichloropropene      | ND     | 0.40       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Trichloroethene                | 3.2    | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Trichlorofluoromethane         | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| Vinyl chloride                 | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/11/22  | HM | E624.1     |
| <b><u>QA/QC Surrogates</u></b> |        |            |             |       |          |           |    |            |
| % 1,2-dichlorobenzene-d4       | 102    |            |             | %     | 1        | 10/11/22  | HM | 70 - 130 % |
| % Bromofluorobenzene           | 95     |            |             | %     | 1        | 10/11/22  | HM | 70 - 130 % |
| % Dibromofluoromethane         | 98     |            |             | %     | 1        | 10/11/22  | HM | 70 - 130 % |
| % Toluene-d8                   | 103    |            |             | %     | 1        | 10/11/22  | HM | 70 - 130 % |
| 1,2-Dichloroethane             | ND     | 1.0        |             | ug/L  | 1        | 10/20/22  | MH | SW8260C    |

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

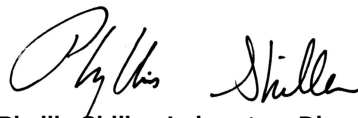
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **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**

**October 21, 2022**

**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

October 21, 2022

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: SW  
Analyzed by: see "By" below

### Date

10/07/22  
10/11/22

### Time

13:28  
15:55

## Laboratory Data

SDG ID: GCM58941  
Phoenix ID: CM58942

Project ID: FROST STREET-OU2  
Client ID: EX-1B

| Parameter                      | Result | RL/<br>PQL | LOD/<br>MDL | Units | Dilution | Date/Time | By | Reference |
|--------------------------------|--------|------------|-------------|-------|----------|-----------|----|-----------|
| <b><u>Volatiles</u></b>        |        |            |             |       |          |           |    |           |
| 1,1,1-Trichloroethane          | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,1,2,2-tetrachloroethane      | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,1,2-Trichloroethane          | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,1-Dichloroethane             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,1-Dichloroethene             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,2-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,2-Dichloroethane             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,2-Dichloropropane            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,3-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| 1,4-Dichlorobenzene            | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Benzene                        | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Bromodichloromethane           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Bromoform                      | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Bromomethane                   | ND     | 0.50       | 0.50        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Carbon disulfide               | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Carbon tetrachloride           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Chlorobenzene                  | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Chloroethane                   | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Chloroform                     | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Chloromethane                  | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| cis-1,2-Dichloroethene         | 9.6    | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| cis-1,3-Dichloropropene        | ND     | 0.40       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Dibromochloromethane           | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Ethylbenzene                   | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| m&p-Xylene                     | ND     | 0.50       | 0.42        | ug/L  | 1        | 10/14/22  | MH | E624.1    |
| Methyl tert-butyl ether (MTBE) | ND     | 1.0        | 0.50        | ug/L  | 1        | 10/14/22  | MH | E624.1    |

| Parameter                      | Result | RL/<br>PQL | LOD/<br>MDL | Units | Dilution | Date/Time | By | Reference  |
|--------------------------------|--------|------------|-------------|-------|----------|-----------|----|------------|
| Methylene chloride             | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| Naphthalene                    | ND     | 1.0        | 1.0         | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| o-Xylene                       | ND     | 0.50       | 0.45        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| Tetrachloroethene              | 200    | 5.0        | 2.5         | ug/L  | 10       | 10/15/22  | MH | E624.1     |
| Toluene                        | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| trans-1,2-Dichloroethene       | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| trans-1,3-Dichloropropene      | ND     | 0.40       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| Trichloroethene                | 8.6    | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| Trichlorofluoromethane         | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| Vinyl chloride                 | ND     | 0.50       | 0.25        | ug/L  | 1        | 10/14/22  | MH | E624.1     |
| <b><u>QA/QC Surrogates</u></b> |        |            |             |       |          |           |    |            |
| % 1,2-dichlorobenzene-d4       | 100    |            |             | %     | 1        | 10/14/22  | MH | 70 - 130 % |
| % Bromofluorobenzene           | 97     |            |             | %     | 1        | 10/14/22  | MH | 70 - 130 % |
| % Dibromofluoromethane         | 102    |            |             | %     | 1        | 10/14/22  | MH | 70 - 130 % |
| % Toluene-d8                   | 96     |            |             | %     | 1        | 10/14/22  | MH | 70 - 130 % |
| % 1,2-dichlorobenzene-d4 (10x) | 100    |            |             | %     | 10       | 10/15/22  | MH | 70 - 130 % |
| % Bromofluorobenzene (10x)     | 95     |            |             | %     | 10       | 10/15/22  | MH | 70 - 130 % |
| % Dibromofluoromethane (10x)   | 102    |            |             | %     | 10       | 10/15/22  | MH | 70 - 130 % |
| % Toluene-d8 (10x)             | 96     |            |             | %     | 10       | 10/15/22  | MH | 70 - 130 % |
| 1,2-Dichloroethane             | ND     | 1.0        |             | ug/L  | 1        | 10/14/22  | MH | SW8260C    |

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**

**October 21, 2022**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
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## QA/QC Report

October 21, 2022

### QA/QC Data

SDG I.D.: GCM58941

| Parameter                                                                                                               | Blank | Blk<br>RL | Sample<br>Result | Dup<br>Result | Dup<br>RPD | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|-------------------------------------------------------------------------------------------------------------------------|-------|-----------|------------------|---------------|------------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 646394 (mg/L), QC Sample No: CM58682 (CM58942)                                                              |       |           |                  |               |            |          |           |            |         |          |           |                    |                    |
| Chromium, Hexavalent                                                                                                    | BRL   | 0.01      | <0.01            | <0.01         | NC         | 96.4     |           |            | 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

October 21, 2022

### QA/QC Data

SDG I.D.: GCM58941

| Parameter                                                  | Blank | Blk<br>RL | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------------------------------------------|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| QA/QC Batch 646987 (ug/L), QC Sample No: CM58683 (CM58942) |       |           |          |           |            |         |          |           |                    |                    |
| <u>Volatiles - Ground Water</u>                            |       |           |          |           |            |         |          |           |                    |                    |
| 1,1,1-Trichloroethane                                      | ND    | 1.0       | 117      | 118       | 0.9        |         |          |           | 70 - 130           | 30                 |
| 1,1,2,2-Tetrachloroethane                                  | ND    | 0.50      | 107      | 108       | 0.9        |         |          |           | 70 - 130           | 30                 |
| 1,1,2-Trichloroethane                                      | ND    | 1.0       | 115      | 109       | 5.4        |         |          |           | 70 - 130           | 30                 |
| 1,1-Dichloroethane                                         | ND    | 1.0       | 123      | 120       | 2.5        |         |          |           | 70 - 130           | 30                 |
| 1,1-Dichloroethene                                         | ND    | 1.0       | 128      | 123       | 4.0        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichlorobenzene                                        | ND    | 1.0       | 106      | 111       | 4.6        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichloroethane                                         | ND    | 1.0       | 107      | 100       | 6.8        |         |          |           | 70 - 130           | 30                 |
| 1,2-Dichloropropane                                        | ND    | 1.0       | 113      | 108       | 4.5        |         |          |           | 70 - 130           | 30                 |
| 1,3-Dichlorobenzene                                        | ND    | 1.0       | 106      | 109       | 2.8        |         |          |           | 70 - 130           | 30                 |
| 1,4-Dichlorobenzene                                        | ND    | 1.0       | 106      | 110       | 3.7        |         |          |           | 70 - 130           | 30                 |
| Benzene                                                    | ND    | 0.70      | 115      | 110       | 4.4        |         |          |           | 70 - 130           | 30                 |
| Bromodichloromethane                                       | ND    | 0.50      | 115      | 108       | 6.3        |         |          |           | 70 - 130           | 30                 |
| Bromoform                                                  | ND    | 1.0       | 102      | 99        | 3.0        |         |          |           | 70 - 130           | 30                 |
| Bromomethane                                               | ND    | 1.0       | 107      | 111       | 3.7        |         |          |           | 70 - 130           | 30                 |
| Carbon Disulfide                                           | ND    | 1.0       | 115      | 110       | 4.4        |         |          |           | 70 - 130           | 30                 |
| Carbon tetrachloride                                       | ND    | 1.0       | 136      | 118       | 14.2       |         |          |           | 70 - 130           | 30                 |
| Chlorobenzene                                              | ND    | 1.0       | 106      | 108       | 1.9        |         |          |           | 70 - 130           | 30                 |
| Chloroethane                                               | ND    | 1.0       | 126      | 124       | 1.6        |         |          |           | 70 - 130           | 30                 |
| Chloroform                                                 | ND    | 1.0       | 117      | 116       | 0.9        |         |          |           | 70 - 130           | 30                 |
| Chloromethane                                              | ND    | 1.0       | 106      | 105       | 0.9        |         |          |           | 70 - 130           | 30                 |
| cis-1,2-Dichloroethene                                     | ND    | 1.0       | 126      | 123       | 2.4        |         |          |           | 70 - 130           | 30                 |
| cis-1,3-Dichloropropene                                    | ND    | 0.40      | 112      | 106       | 5.5        |         |          |           | 70 - 130           | 30                 |
| Dibromochloromethane                                       | ND    | 0.50      | 104      | 103       | 1.0        |         |          |           | 70 - 130           | 30                 |
| Ethylbenzene                                               | ND    | 1.0       | 109      | 112       | 2.7        |         |          |           | 70 - 130           | 30                 |
| m&p-Xylene                                                 | ND    | 1.0       | 110      | 111       | 0.9        |         |          |           | 70 - 130           | 30                 |
| Methyl t-butyl ether (MTBE)                                | ND    | 1.0       | 121      | 115       | 5.1        |         |          |           | 70 - 130           | 30                 |
| Methylene chloride                                         | ND    | 1.0       | 117      | 112       | 4.4        |         |          |           | 70 - 130           | 30                 |
| Naphthalene                                                | ND    | 1.0       | 111      | 114       | 2.7        |         |          |           | 70 - 130           | 30                 |
| o-Xylene                                                   | ND    | 1.0       | 105      | 106       | 0.9        |         |          |           | 70 - 130           | 30                 |
| Toluene                                                    | ND    | 1.0       | 116      | 112       | 3.5        |         |          |           | 70 - 130           | 30                 |
| trans-1,2-Dichloroethene                                   | ND    | 1.0       | 122      | 117       | 4.2        |         |          |           | 70 - 130           | 30                 |
| trans-1,3-Dichloropropene                                  | ND    | 0.40      | 114      | 106       | 7.3        |         |          |           | 70 - 130           | 30                 |
| Trichloroethene                                            | ND    | 1.0       | 105      | 100       | 4.9        |         |          |           | 70 - 130           | 30                 |
| Trichlorofluoromethane                                     | ND    | 1.0       | 134      | 129       | 3.8        |         |          |           | 70 - 130           | 30                 |
| Vinyl chloride                                             | ND    | 1.0       | 119      | 116       | 2.6        |         |          |           | 70 - 130           | 30                 |
| % 1,2-dichlorobenzene-d4                                   | 100   | %         | 99       | 101       | 2.0        |         |          |           | 70 - 130           | 30                 |
| % Bromofluorobenzene                                       | 97    | %         | 98       | 98        | 0.0        |         |          |           | 70 - 130           | 30                 |
| % Dibromofluoromethane                                     | 104   | %         | 106      | 106       | 0.0        |         |          |           | 70 - 130           | 30                 |
| % Toluene-d8                                               | 98    | %         | 109      | 102       | 6.6        |         |          |           | 70 - 130           | 30                 |

# QA/QC Data

SDG I.D.: GCM58941

| Parameter                                                                                                                                                                            | Blank | Blk<br>RL | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| Comment:                                                                                                                                                                             |       |           |          |           |            |         |          |           |                    |                    |
| A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.                                                                                         |       |           |          |           |            |         |          |           |                    |                    |
| Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL. |       |           |          |           |            |         |          |           |                    |                    |
| QA/QC Batch 648319 (ug/L), QC Sample No: CM63148 (CM58941)                                                                                                                           |       |           |          |           |            |         |          |           |                    |                    |
| <b>Volatiles - Ground Water</b>                                                                                                                                                      |       |           |          |           |            |         |          |           |                    |                    |
| 1,2-Dichloroethane                                                                                                                                                                   | ND    | 0.60      | 98       | 98        | 0.0        |         |          |           | 70 - 130           | 30                 |
| Comment:                                                                                                                                                                             |       |           |          |           |            |         |          |           |                    |                    |
| A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.                                                                                         |       |           |          |           |            |         |          |           |                    |                    |
| Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL. |       |           |          |           |            |         |          |           |                    |                    |
| QA/QC Batch 646480 (ug/L), QC Sample No: CM58843 (CM58941)                                                                                                                           |       |           |          |           |            |         |          |           |                    |                    |
| <b>Volatiles - Ground Water</b>                                                                                                                                                      |       |           |          |           |            |         |          |           |                    |                    |
| 1,1,1-Trichloroethane                                                                                                                                                                | ND    | 1.0       | 101      | 95        | 6.1        | 110     | 100      | 9.5       | 75 - 125           | 20                 |
| 1,1,2,2-Tetrachloroethane                                                                                                                                                            | ND    | 0.50      | 97       | 101       | 4.0        | 102     | 108      | 5.7       | 60 - 140           | 20                 |
| 1,1,2-Trichloroethane                                                                                                                                                                | ND    | 1.0       | 101      | 101       | 0.0        | 104     | 107      | 2.8       | 71 - 129           | 20                 |
| 1,1-Dichloroethane                                                                                                                                                                   | ND    | 1.0       | 103      | 98        | 5.0        | 113     | 106      | 6.4       | 72 - 128           | 20                 |
| 1,1-Dichloroethene                                                                                                                                                                   | ND    | 1.0       | 100      | 90        | 10.5       | 106     | 98       | 7.8       | 50 - 150           | 20                 |
| 1,2-Dichlorobenzene                                                                                                                                                                  | ND    | 1.0       | 100      | 99        | 1.0        | 100     | 105      | 4.9       | 63 - 137           | 20                 |
| 1,2-Dichloroethane                                                                                                                                                                   | ND    | 1.0       | 98       | 98        | 0.0        | 105     | 111      | 5.6       | 68 - 132           | 20                 |
| 1,2-Dichloropropane                                                                                                                                                                  | ND    | 1.0       | 103      | 102       | 1.0        | 102     | 106      | 3.8       | 40 - 160           | 20                 |
| 1,3-Dichlorobenzene                                                                                                                                                                  | ND    | 1.0       | 104      | 102       | 1.9        | 102     | 108      | 5.7       | 73 - 127           | 20                 |
| 1,4-Dichlorobenzene                                                                                                                                                                  | ND    | 1.0       | 102      | 101       | 1.0        | 100     | 104      | 3.9       | 63 - 137           | 20                 |
| Benzene                                                                                                                                                                              | ND    | 0.70      | 101      | 100       | 1.0        | 113     | 116      | 2.6       | 64 - 136           | 20                 |
| Bromodichloromethane                                                                                                                                                                 | ND    | 0.50      | 108      | 107       | 0.9        | 108     | 111      | 2.7       | 65 - 135           | 20                 |
| Bromoform                                                                                                                                                                            | ND    | 1.0       | 107      | 107       | 0.0        | 105     | 114      | 8.2       | 71 - 129           | 20                 |
| Bromomethane                                                                                                                                                                         | ND    | 1.0       | 89       | 88        | 1.1        | 94      | 88       | 6.6       | 40 - 160           | 20                 |
| Carbon Disulfide                                                                                                                                                                     | ND    | 1.0       | 109      | 95        | 13.7       | 98      | 94       | 4.2       | 70 - 130           | 30                 |
| Carbon tetrachloride                                                                                                                                                                 | ND    | 1.0       | 123      | 111       | 10.3       | 104     | 96       | 8.0       | 73 - 127           | 20                 |
| Chlorobenzene                                                                                                                                                                        | ND    | 1.0       | 101      | 99        | 2.0        | 103     | 107      | 3.8       | 66 - 134           | 20                 |
| Chloroethane                                                                                                                                                                         | ND    | 1.0       | 113      | 98        | 14.2       | 118     | 97       | 19.5      | 40 - 160           | 20                 |
| Chloroform                                                                                                                                                                           | ND    | 1.0       | 101      | 97        | 4.0        | 114     | 105      | 8.2       | 67 - 133           | 20                 |
| Chloromethane                                                                                                                                                                        | ND    | 1.0       | 97       | 89        | 8.6        | 108     | 98       | 9.7       | 40 - 160           | 20                 |
| cis-1,2-Dichloroethene                                                                                                                                                               | ND    | 1.0       | 105      | 100       | 4.9        | 113     | 106      | 6.4       | 69 - 131           | 20                 |
| cis-1,3-Dichloropropene                                                                                                                                                              | ND    | 0.40      | 113      | 111       | 1.8        | 103     | 108      | 4.7       | 40 - 160           | 20                 |
| Dibromochloromethane                                                                                                                                                                 | ND    | 0.50      | 109      | 107       | 1.9        | 107     | 113      | 5.5       | 67 - 133           | 20                 |
| Ethylbenzene                                                                                                                                                                         | ND    | 1.0       | 104      | 101       | 2.9        | 104     | 109      | 4.7       | 59 - 141           | 20                 |
| m&p-Xylene                                                                                                                                                                           | ND    | 1.0       | 109      | 106       | 2.8        | 108     | 114      | 5.4       | 70 - 130           | 30                 |
| Methyl t-butyl ether (MTBE)                                                                                                                                                          | ND    | 1.0       | 105      | 103       | 1.9        | 113     | 108      | 4.5       | 70 - 130           | 30                 |
| Methylene chloride                                                                                                                                                                   | ND    | 1.0       | 102      | 95        | 7.1        | 113     | 105      | 7.3       | 60 - 140           | 20                 |
| Naphthalene                                                                                                                                                                          | ND    | 1.0       | 113      | 116       | 2.6        | 111     | 124      | 11.1      | 70 - 130           | 30                 |
| o-Xylene                                                                                                                                                                             | ND    | 1.0       | 109      | 108       | 0.9        | 109     | 114      | 4.5       | 70 - 130           | 30                 |
| Tetrachloroethene                                                                                                                                                                    | ND    | 1.0       | 103      | 95        | 8.1        | 94      | 99       | 5.2       | 73 - 127           | 20                 |
| Toluene                                                                                                                                                                              | ND    | 1.0       | 103      | 100       | 3.0        | 102     | 107      | 4.8       | 74 - 126           | 20                 |
| trans-1,2-Dichloroethene                                                                                                                                                             | ND    | 1.0       | 104      | 96        | 8.0        | 107     | 103      | 3.8       | 69 - 131           | 20                 |
| trans-1,3-Dichloropropene                                                                                                                                                            | ND    | 0.40      | 113      | 109       | 3.6        | 105     | 111      | 5.6       | 50 - 150           | 20                 |
| Trichloroethene                                                                                                                                                                      | ND    | 1.0       | 101      | 92        | 9.3        | 92      | 96       | 4.3       | 66 - 134           | 20                 |
| Trichlorofluoromethane                                                                                                                                                               | ND    | 1.0       | 100      | 90        | 10.5       | 106     | 97       | 8.9       | 48 - 152           | 20                 |
| Vinyl chloride                                                                                                                                                                       | ND    | 1.0       | 104      | 93        | 11.2       | 109     | 101      | 7.6       | 40 - 160           | 20                 |
| % 1,2-dichlorobenzene-d4                                                                                                                                                             | 101   | %         | 100      | 99        | 1.0        | 99      | 99       | 0.0       | 70 - 130           | 30                 |
| % Bromofluorobenzene                                                                                                                                                                 | 96    | %         | 100      | 100       | 0.0        | 102     | 103      | 1.0       | 70 - 130           | 30                 |

## QA/QC Data

SDG I.D.: GCM58941

| Parameter              | Blank | Blk<br>RL | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------|-------|-----------|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
| % Dibromofluoromethane | 99    | %         | 100      | 99        | 1.0        | 114     | 100      | 13.1      | 70 - 130           | 30                 |
| % Toluene-d8           | 102   | %         | 102      | 102       | 0.0        | 102     | 101      | 1.0       | 70 - 130           | 30                 |

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 646970 (ug/L), QC Sample No: CM60157 (CM58942)

### Volatiles - Ground Water

|                             |     |      |     |     |     |     |     |      |          |    |
|-----------------------------|-----|------|-----|-----|-----|-----|-----|------|----------|----|
| 1,1,1-Trichloroethane       | ND  | 1.0  | 117 | 118 | 0.9 | 117 | 112 | 4.4  | 75 - 125 | 20 |
| 1,1,2,2-Tetrachloroethane   | ND  | 0.50 | 107 | 108 | 0.9 | 107 | 110 | 2.8  | 60 - 140 | 20 |
| 1,1,2-Trichloroethane       | ND  | 1.0  | 115 | 109 | 5.4 | 102 | 103 | 1.0  | 71 - 129 | 20 |
| 1,1-Dichloroethane          | ND  | 1.0  | 123 | 120 | 2.5 | 117 | 110 | 6.2  | 72 - 128 | 20 |
| 1,1-Dichloroethene          | ND  | 1.0  | 128 | 123 | 4.0 | 128 | 120 | 6.5  | 50 - 150 | 20 |
| 1,2-Dichlorobenzene         | ND  | 1.0  | 106 | 111 | 4.6 | 108 | 111 | 2.7  | 63 - 137 | 20 |
| 1,2-Dichloroethane          | ND  | 1.0  | 107 | 100 | 6.8 | 96  | 117 | 19.7 | 68 - 132 | 20 |
| 1,2-Dichloropropane         | ND  | 1.0  | 113 | 108 | 4.5 | 100 | 102 | 2.0  | 40 - 160 | 20 |
| 1,3-Dichlorobenzene         | ND  | 1.0  | 106 | 109 | 2.8 | 105 | 109 | 3.7  | 73 - 127 | 20 |
| 1,4-Dichlorobenzene         | ND  | 1.0  | 106 | 110 | 3.7 | 105 | 110 | 4.7  | 63 - 137 | 20 |
| Benzene                     | ND  | 0.70 | 115 | 110 | 4.4 | 107 | 108 | 0.9  | 64 - 136 | 20 |
| Bromodichloromethane        | ND  | 0.50 | 115 | 108 | 6.3 | 98  | 101 | 3.0  | 65 - 135 | 20 |
| Bromoform                   | ND  | 1.0  | 102 | 99  | 3.0 | 92  | 95  | 3.2  | 71 - 129 | 20 |
| Bromomethane                | ND  | 1.0  | 107 | 111 | 3.7 | 91  | 98  | 7.4  | 40 - 160 | 20 |
| Carbon Disulfide            | ND  | 1.0  | 115 | 110 | 4.4 | 107 | 102 | 4.8  | 70 - 130 | 30 |
| Carbon tetrachloride        | ND  | 1.0  | 113 | 118 | 4.3 | 117 | 112 | 4.4  | 73 - 127 | 20 |
| Chlorobenzene               | ND  | 1.0  | 106 | 108 | 1.9 | 108 | 110 | 1.8  | 66 - 134 | 20 |
| Chloroethane                | ND  | 1.0  | 126 | 124 | 1.6 | 127 | 114 | 10.8 | 40 - 160 | 20 |
| Chloroform                  | ND  | 1.0  | 117 | 116 | 0.9 | 113 | 108 | 4.5  | 67 - 133 | 20 |
| Chloromethane               | ND  | 1.0  | 106 | 105 | 0.9 | 104 | 104 | 0.0  | 40 - 160 | 20 |
| cis-1,2-Dichloroethene      | ND  | 1.0  | 126 | 123 | 2.4 | 118 | 109 | 7.9  | 69 - 131 | 20 |
| cis-1,3-Dichloropropene     | ND  | 0.40 | 112 | 106 | 5.5 | 94  | 94  | 0.0  | 40 - 160 | 20 |
| Dibromochloromethane        | ND  | 0.50 | 104 | 103 | 1.0 | 99  | 101 | 2.0  | 67 - 133 | 20 |
| Ethylbenzene                | ND  | 1.0  | 109 | 112 | 2.7 | 111 | 115 | 3.5  | 59 - 141 | 20 |
| m&p-Xylene                  | ND  | 1.0  | 110 | 111 | 0.9 | 111 | 115 | 3.5  | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND  | 1.0  | 121 | 115 | 5.1 | 111 | 106 | 4.6  | 70 - 130 | 30 |
| Methylene chloride          | ND  | 1.0  | 117 | 112 | 4.4 | 112 | 104 | 7.4  | 60 - 140 | 20 |
| Naphthalene                 | ND  | 1.0  | 111 | 114 | 2.7 | 109 | 113 | 3.6  | 70 - 130 | 30 |
| o-Xylene                    | ND  | 1.0  | 105 | 106 | 0.9 | 105 | 109 | 3.7  | 70 - 130 | 30 |
| Toluene                     | ND  | 1.0  | 116 | 112 | 3.5 | 105 | 107 | 1.9  | 74 - 126 | 20 |
| trans-1,2-Dichloroethene    | ND  | 1.0  | 122 | 117 | 4.2 | 114 | 111 | 2.7  | 69 - 131 | 20 |
| trans-1,3-Dichloropropene   | ND  | 0.40 | 114 | 106 | 7.3 | 94  | 94  | 0.0  | 50 - 150 | 20 |
| Trichloroethene             | ND  | 1.0  | 105 | 100 | 4.9 | 106 | 108 | 1.9  | 66 - 134 | 20 |
| Trichlorofluoromethane      | ND  | 1.0  | 134 | 129 | 3.8 | 133 | 125 | 6.2  | 48 - 152 | 20 |
| Vinyl chloride              | ND  | 1.0  | 119 | 116 | 2.6 | 117 | 116 | 0.9  | 40 - 160 | 20 |
| % 1,2-dichlorobenzene-d4    | 100 | %    | 99  | 101 | 2.0 | 100 | 101 | 1.0  | 70 - 130 | 30 |
| % Bromofluorobenzene        | 97  | %    | 98  | 98  | 0.0 | 98  | 99  | 1.0  | 70 - 130 | 30 |
| % Dibromofluoromethane      | 104 | %    | 106 | 106 | 0.0 | 100 | 95  | 5.1  | 70 - 130 | 30 |
| % Toluene-d8                | 98  | %    | 109 | 102 | 6.6 | 96  | 97  | 1.0  | 70 - 130 | 30 |

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 647351 (ug/L), QC Sample No: CM61361 (CM58942 (10X) )

### Volatiles - Ground Water

|                          |     |     |     |     |     |     |     |     |          |    |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----|
| Tetrachloroethene        | ND  | 1.0 | 106 | 105 | 0.9 | 109 | 104 | 4.7 | 73 - 127 | 20 |
| % 1,2-dichlorobenzene-d4 | 100 | %   | 99  | 100 | 1.0 | 101 | 101 | 0.0 | 70 - 130 | 30 |

## QA/QC Data

SDG I.D.: GCM58941

| Parameter              | Blk   |    | LCS<br>% | LCSD<br>% | LCS<br>RPD | MS<br>% | MSD<br>% | MS<br>RPD | %<br>Rec<br>Limits | %<br>RPD<br>Limits |
|------------------------|-------|----|----------|-----------|------------|---------|----------|-----------|--------------------|--------------------|
|                        | Blank | RL |          |           |            |         |          |           |                    |                    |
| % Bromofluorobenzene   | 96    | %  | 97       | 98        | 1.0        | 98      | 98       | 0.0       | 70 - 130           | 30                 |
| % Dibromofluoromethane | 102   | %  | 100      | 101       | 1.0        | 97      | 100      | 3.0       | 70 - 130           | 30                 |
| % Toluene-d8           | 96    | %  | 98       | 97        | 1.0        | 96      | 96       | 0.0       | 70 - 130           | 30                 |

Comment:

A blank MS/MSD was analyzed with this batch.

---

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

October 21, 2022



Friday, October 21, 2022

Criteria: None  
State: NY

Sample Criteria Exceedances Report  
GCM58941 - ENVIROTR

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL<br>Criteria | Analysis<br>Units |
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|
|--------|-------|-----------------|----------|--------|----|----------|----------------|-------------------|

\*\*\* 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

October 21, 2022

SDG I.D.: GCM58941

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

### **VOA Narration**

#### **CHEM23 10/13/22-2:** CM58942

The following Initial Calibration compounds did not meet RSD% criteria: Chloroethane 22% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: 1,1-Dichloroethene 32%H (20%), Chloroethane 32%H (30%), Trichlorofluoromethane 42%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,1-Dichloroethene 32%H (20%), Trichlorofluoromethane 42%H (40%)

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.



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## **NY Temperature Narration**

**October 21, 2022**

**SDG I.D.: GCM58941**

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The samples in this delivery group were received at 1.1°C.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)





GCM 58941

**Madison Lathe**

---

**From:** Madison Lathe  
**Sent:** Tuesday, October 11, 2022 6:27 PM  
**To:** 'jamesw@envirotrac.com'  
**Cc:** Krystal Delgado; Tara Banning  
**Subject:** Frost street - OU2  
**Attachments:** SKM\_458e22101118460.pdf  
  
**Importance:** High

Good evening,

Our courier picked up samples from you this afternoon for the project: Frost street - OU2. We received 3 HCl 40 ml vials for sample 58942. Unfortunately, we cannot test for Hexavalent Chromium out of those containers. That test would need to be sent in a 250 ml as is plastic bottle. Please see attached chain.

Please contact the lab if you have any questions.

Thank you,

*Madison Lathe*

Sample Receiving  
Phoenix Environmental Labs  
587 Middle Turnpike East  
Manchester, CT  
Phone: 860-645-1102  
Fax: 860-645-0823

6CM58941

## Tara Banning

---

**From:** James Wilkinson, PE <jamesw@envirotrac.com>  
**Sent:** Wednesday, October 12, 2022 5:15 PM  
**To:** Tara Banning; Madison Lathe  
**Cc:** Krystal Delgado  
**Subject:** Re: Frost street - OU2

Thank you!

Can you please update the ID for sample # CM58941 to EX-1A instead of EX-1.  
Sorry, that will be the last change needed.

Get [Outlook for iOS](#)

---

**From:** Tara Banning <tara@phoenixlabs.com>  
**Sent:** Tuesday, October 11, 2022 7:17:51 PM  
**To:** James Wilkinson, PE <jamesw@envirotrac.com>; Madison Lathe <madison@phoenixlabs.com>  
**Cc:** Krystal Delgado <KrystalD@phoenixlabs.com>  
**Subject:** RE: Frost street - OU2

This is all set.

Tara Banning

---

**From:** James Wilkinson, PE <jamesw@envirotrac.com>  
**Sent:** Tuesday, October 11, 2022 6:35 PM  
**To:** Madison Lathe <madison@phoenixlabs.com>  
**Cc:** Krystal Delgado <KrystalD@phoenixlabs.com>; Tara Banning <tara@phoenixlabs.com>  
**Subject:** RE: Frost street - OU2

Actually the IDs were wrong too, please use the attached one.

James Wilkinson, PE

Senior Engineer



EnviroTrac Ltd.  
phone: 631.924.3001 | email: [jamesw@envirotrac.com](mailto:jamesw@envirotrac.com)  
5 Old Dock Road Yaphank, NY 11980 | <https://envirotrac.com>



---

**From:** James Wilkinson, PE  
**Sent:** Tuesday, October 11, 2022 6:32 PM  
**To:** Madison Lathe <madison@phoenixlabs.com>  
**Cc:** Krystal Delgado <KrystalD@phoenixlabs.com>; Tara Banning <tara@phoenixlabs.com>  
**Subject:** RE: Frost street - OU2

Please analyze them for VOCs not Hex Chrom.  
Corrected COC is attached.

---

**From:** Madison Lathe <[madison@phoenixlabs.com](mailto:madison@phoenixlabs.com)>  
**Sent:** Tuesday, October 11, 2022 6:27 PM  
**To:** James Wilkinson, PE <[jamesw@envirotrac.com](mailto:jamesw@envirotrac.com)>  
**Cc:** Krystal Delgado <[KrystalD@phoenixlabs.com](mailto:KrystalD@phoenixlabs.com)>; Tara Banning <[tara@phoenixlabs.com](mailto:tara@phoenixlabs.com)>  
**Subject:** Frost street - OU2  
**Importance:** High

Good evening,

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Please contact the lab if you have any questions.

Thank you,

*Madison Lathe*

Sample Receiving  
Phoenix Environmental Labs  
587 Middle Turnpike East  
Manchester, CT  
Phone: 860-645-1102  
Fax: 860-645-0823



Bobbi Aloisa

---

From: Bobbi Aloisa  
Sent: Wednesday, October 12, 2022 7:09 PM  
To: James Wilkinson, PE; Bobbi Aloisa  
Subject: 624 issue  
Attachments: GCM58941-ChainofCustody-1.pdf

Hi James

We can't report the following compounds (listed below) on the attached chain for samples that required 624 because we did not receive 2 "as is" vials in addition to the HCL for the sample that is being requested for 624 VOC's. We need 2 "as is" vials and 3 "hcl" vials when running samples for method 624. If these compounds are not constituents of concern then it might not be a problem. Please see below. The vials were all checked by the VOA department and they are HCL.

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

Please LMK if you have any questions

Bobbi

**Bobbi Aloisa**

Vice President | Director of Client Services

**Phoenix Environmental Laboratories, Inc.**

587 East Middle Turnpike | Manchester, CT 06040

Direct Line: (860)-645-8728

[www.phoenixlabs.com](http://www.phoenixlabs.com)







Madison Lathé

GCM 58941

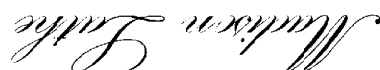
**From:** Madison Lathé  
**Sent:** Tuesday, October 11, 2022 6:27 PM  
**To:** 'jamesw@envirotrac.com';  
Krystal Delgado; Tara Banning  
**Subject:** Frost street - OU2  
**Attachments:** SKM\_458e22101118460.pdf  
**Importance:** High

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Please contact the lab if you have any questions.

Thank you,



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