

May 11, 2020

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

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

Re: Progress Report: April 2020  
Frost Street Sites: Site ID#s 1-30043 I, L, M  
New Cassel Industrial Area, Westbury, New York

Dear Ms. Maloney:

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID#s 1-30043 I, L, M) for operation, maintenance, and monitoring (OM&M) activities completed in April 2020 for the onsite air sparge/soil vapor extraction (AS/SVE) and groundwater extraction systems.

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

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). No alarm calls were received in April 2020.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on April 24, 2020, 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 readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [4,528 µg/m<sup>3</sup>]) continue to indicate significant mass extraction.
  - Effluent concentrations are below the carbon exchange indicator concentrations, as shown below.

| 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> | April 2020<br>Effluent<br>Concentration<br>(µg/m <sup>3</sup> ) |
| Trichloroethene                           | 500                                                      | 19,000                                                                                         | 2.93                                                            |
| Tetrachloroethene                         | 1,000                                                    | 38,000                                                                                         | 1.81                                                            |
| Vinyl Chloride                            | 100                                                      | 3,800                                                                                          | ND                                                              |
| Cis-1,2-Dichloroethene <sup>3</sup>       | 100                                                      | 3,800                                                                                          | 1.28                                                            |

**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 April except on April 1 when the system went down for ten minutes around 12:00 pm, and April 30 when the system went down for three hours at 5:20 am. Both of these outages were quickly rectified by remotely restarting the system.

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

**Groundwater Monitoring**

The first quarter 2020 groundwater sampling event was completed the week of March 9. The electronic data deliverable was submitted to NYSDEC on April 8, 2020; the report was submitted on May 1, 2020.

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 amtamuno@gw.dec.state.ny.us</i>      |
|         | C. Bethoney, NYSDOH          | <i>Via email to charlotte.bethoney@health.ny.gov</i> |
|         | J. Nealon, NYSDOH            | <i>Via email to jacquelyn.nealon@health.ny.gov</i>   |
|         | R. Putnam, NCDOH             | <i>Via email to rputnam@nassaucountyny.gov</i>       |
|         | J. Vasquez, U.S. EPA         | <i>Via email to vazquez.julio@epa.gov</i>            |
|         | T. Pupilla, Sanders Equities | <i>Via email to tpupilla@sandersequities.com</i>     |
|         | K. Maldonado, Esq.           | <i>Via email to kevinmaldonado64@yahoo.com</i>       |
|         | J. Privitera, Esq.           | <i>Via email to privitera@mltw.com</i>               |
|         | P. Coop, EnSafe              | <i>Via email to pcoop@ensafe.com</i>                 |
|         | J. Wilkinson, Envirotrac     | <i>Via email to jamesw@envirotrac.com</i>            |

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

**Operation & Maintenance Data Sheet**  
 Ensafe-Frost Street  
 101 Frost Street  
 Westbury, NY

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

**Date:** 3-Apr  
**Weather / Temp:** Rain / 50 DEG  
**Technician / Operator:** JW

**Arrival Time:** 8:30  
**Departure Time:** 9:30

| System Status                            |                 |          |           |     |                                                  |          |          |           |     |
|------------------------------------------|-----------------|----------|-----------|-----|--------------------------------------------------|----------|----------|-----------|-----|
|                                          | Arrival         |          | Departure |     |                                                  | Arrival  |          | Departure |     |
| SVE Blower 1 (ON/OFF)                    | ON              |          | ON        |     | Sensaphone (ON/OFF)                              | ON       |          | ON        |     |
| SVE Blower 2 (ON/OFF)                    | OFF             |          | OFF       |     | Surge Protection (ON/OFF)                        | ON       |          | ON        |     |
| AS Compressor 1 (ON/OFF)                 | OFF             |          | OFF       |     | Lightning Protection (White/Black)               | White    |          | White     |     |
| AS Compressor 2 (ON/OFF)                 | OFF             |          | ON        |     |                                                  |          |          |           |     |
| Soil Vapor Extraction System             |                 |          |           |     |                                                  |          |          |           |     |
| Blower Air Velocity/Flow Rate (fpm)/cfm) | 4400            |          | 864       |     | Blower 1 Total Runtime (hrs)                     | 58,571.5 |          |           |     |
| Blower 1 Fresh Air Valve Open (%)        | 0               |          |           |     | Blower 2 Total Runtime (hrs)                     | 56,556.6 |          |           |     |
| Blower 2 Fresh Air Valve Open (%)        | 0               |          |           |     | Blower 1 Air Filter Differential Pressure ("H2O) | 0        |          |           |     |
| Moisture Separator Vacuum ("Hg)          | 4               |          |           |     | Blower 2 Air Filter Differential Pressure ("H2O) | 0        |          |           |     |
| VGAC-1 Influent Vacuum ("H2O)            | 80              |          |           |     | VGAC-1 Influent PID (ppm)                        | 2.7      |          |           |     |
| VGAC-1 Effluent Vacuum ("H2O)            | 72              |          |           |     | VGAC-1 Effluent PID (ppm)                        | 1.8      |          |           |     |
| VGAC-2 Influent Vacuum ("H2O)            | 65              |          |           |     | VGAC-2 Influent PID (ppm)                        | 2.7      |          |           |     |
| VGAC-2 Effluent Vacuum ("H2O)            | 70              |          |           |     | VGAC-2 Effluent PID (ppm)                        | 1.8      |          |           |     |
| VGAC-3 Influent Pressure ("H2O)          | 20              |          |           |     | VGAC-3 Influent PID (ppm)                        | 1.8      |          |           |     |
| VGAC-3 Effluent Pressure ("H2O)          | 2               |          |           |     | VGAC-3 Effluent PID (ppm)                        | 0.0      |          |           |     |
| VGAC-3 Influent Temp (DegF)              | 140             |          |           |     | Blower Effluent PID (ppm)                        | 1.8      |          |           |     |
| Blower Effluent Pressure ("H2O)          | 20              |          |           |     |                                                  |          |          |           |     |
| Transfer Pump Total Runtime (hrs)        | 25,040.9        |          |           |     | Condensate Storage Tank Level (gal)              | 0        |          |           |     |
| SVE Manifold Legs - Vacuum/Flow Rate/PID |                 |          |           |     |                                                  |          |          |           |     |
|                                          | Vacuum          | Velocity | Flow Rate | PID |                                                  | Vacuum   | Velocity | Flow Rate | PID |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)           | 54              | 8000     | 175       |     | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)                   | 48       | 4500     | 98        |     |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)           | 56              | 5000     | 109       |     | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)                   | 48       | 3100     | 68        |     |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)           | 48              | 5400     | 118       |     | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)                  | 48       | 7000     | 153       |     |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)          | 48              | 4500     | 98        |     | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)                   | 50       | 3000     | 65        |     |
| Air Sparge System                        |                 |          |           |     |                                                  |          |          |           |     |
| Compressor 1 Pressure (psi)              | Off for repairs |          |           |     | Compressor 2 Pressure (psi)                      | 83       |          |           |     |
| Compressor 1 Temperature (degF)          | Off for repairs |          |           |     | Compressor 2 Temperature (degF)                  | 167      |          |           |     |
| Compressor 1 Runtime (hrs)               | 27,317          |          |           |     | Compressor 2 Runtime (hrs)                       | 38,566   |          |           |     |
| Manifold Regulator Pressure (psi)        | 70              |          |           |     |                                                  |          |          |           |     |
| AS Manifold Legs - Pressure/Flow Rate    |                 |          |           |     |                                                  |          |          |           |     |
|                                          | Pressure        |          | Flow Rate |     |                                                  | Pressure |          | Flow Rate |     |
| AS-1 (psi)/cfm)                          | 20              |          | 6         |     | AS-11 (psi)/cfm)                                 | 19       |          | 7         |     |
| AS-2 (psi)/cfm)                          | 19              |          | 4         |     | AS-12B (psi)/cfm)                                | 19       |          | 6         |     |
| AS-3 (psi)/cfm)                          | 18              |          | 10        |     | AS-13B (psi)/cfm)                                | 18       |          | 6         |     |
| AS-4 (psi)/cfm)                          | 15              |          | 4         |     | AS-14 (psi)/cfm)                                 | 18       |          | 10        |     |
| AS-5 (psi)/cfm)                          | 20              |          | 10        |     | AS-15 (psi)/cfm)                                 | 20       |          | 8         |     |
| AS-6 (psi)/cfm)                          | 20              |          | 7         |     | AS-16B (psi)/cfm)                                | 17       |          | 7         |     |
| AS-7 (psi)/cfm)                          | 19              |          | 8         |     | AS-17 (psi)/cfm)                                 | 18       |          | 5         |     |
| AS-8 (psi)/cfm)                          | 17              |          | 9         |     | AS-18 (psi)/cfm)                                 | 17       |          | 7         |     |
| AS-9 (psi)/cfm)                          | 19              |          | 8         |     | AS-19 (psi)/cfm)                                 | 17       |          | 9         |     |
| AS-10B (psi)/cfm)                        | 17              |          | 8         |     |                                                  |          |          |           |     |

**Notes, Comments & Observations:**

Hydrovane compressor off upon arrival due to broken air tubing connected to prssure sensor.

Repaired tubing and restarted compressor.

**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:** 3-Apr  
**Weather / Temp:** Rain / 50 DEG  
**Technician / Operator:** JW

**Arrival Time:** 8:30  
**Departure Time:** 9:30

| Maintenance Item                    | Perform     | Completed (yes/no) | Comments              |
|-------------------------------------|-------------|--------------------|-----------------------|
| <b>SVE Blower B-1</b>               |             |                    |                       |
| -Inspect                            | Weekly      | Y                  |                       |
| -Lubricate                          | As Required | N                  |                       |
| -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                  |                       |
| -Inspect Air Filter                 | Weekly      | Y                  |                       |
| -Amp Draw                           | Quarterly   | N                  |                       |
| -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 | Y                  |                       |
| <b>AS Compressor 1</b>              |             |                    |                       |
| -Inspect                            | Weekly      | N                  | Off for repairs.      |
| -Lubricate                          | As Required | N                  |                       |
| -Inspect Filters                    | Weekly      | N                  |                       |
| -Amp Draw                           | Quarterly   | N                  |                       |
| <b>AS Compressor 2</b>              |             |                    |                       |
| -Inspect                            | Weekly      | Y                  |                       |
| -Lubricate                          | As Required | Y                  | Add 1/2-Gallon of oil |
| -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                  |                       |

**Operation & Maintenance Data Sheet**  
 Ensae-Frost Street  
 101 Frost Street  
 Westbury, NY

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

Date: 14-Apr  
 Weather / Temp: Clear / 50 DEG  
 Technician / Operator: JW

Arrival Time: 8:30  
 Departure Time: 9:00

| System Status                             |                 |           |                                                  |                                 |                                 |        |          |           |      |  |
|-------------------------------------------|-----------------|-----------|--------------------------------------------------|---------------------------------|---------------------------------|--------|----------|-----------|------|--|
|                                           | Arrival         | Departure |                                                  | Arrival                         | Departure                       |        |          |           |      |  |
| SVE Blower 1 (ON/OFF)                     | ON              | ON        | Sensaphone (ON/OFF)                              | ON                              | ON                              |        |          |           |      |  |
| SVE Blower 2 (ON/OFF)                     | OFF             | OFF       | Surge Protection (ON/OFF)                        | ON                              | ON                              |        |          |           |      |  |
| AS Compressor 1 (ON/OFF)                  | OFF             | OFF       | Lightning Protection (White/Black)               | White                           | White                           |        |          |           |      |  |
| AS Compressor 2 (ON/OFF)                  | ON              | ON        |                                                  |                                 |                                 |        |          |           |      |  |
| Soil Vapor Extraction System              |                 |           |                                                  |                                 |                                 |        |          |           |      |  |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4300            | 844       | Blower 1 Total Runtime (hrs)                     | 58,703.4                        |                                 |        |          |           |      |  |
| Blower 1 Fresh Air Valve Open (%)         | 0               |           | Blower 2 Total Runtime (hrs)                     | 56,566.8                        |                                 |        |          |           |      |  |
| Blower 2 Fresh Air Valve Open (%)         | 0               |           | Blower 1 Air Filter Differential Pressure ("H2O) | 0                               |                                 |        |          |           |      |  |
| Moisture Separator Vacuum ("Hg)           | 4               |           | Blower 2 Air Filter Differential Pressure ("H2O) | 0                               |                                 |        |          |           |      |  |
| VGAC-1 Influent Vacuum ("H2O)             | 80              |           | VGAC-1 Effluent PID (ppm)                        | 7.5                             |                                 |        |          |           |      |  |
| VGAC-1 Effluent Vacuum ("H2O)             | 72              |           | VGAC-2 Effluent PID (ppm)                        | 1.9                             |                                 |        |          |           |      |  |
| VGAC-2 Influent Vacuum ("H2O)             | 65              |           | VGAC-2 Influent PID (ppm)                        | 7.5                             |                                 |        |          |           |      |  |
| VGAC-2 Effluent Vacuum ("H2O)             | 70              |           | VGAC-2 Effluent PID (ppm)                        | 1.9                             |                                 |        |          |           |      |  |
| VGAC-3 Influent Pressure ("H2O)           | 20              |           | VGAC-3 Influent PID (ppm)                        | 1.8                             |                                 |        |          |           |      |  |
| VGAC-3 Effluent Pressure ("H2O)           | 2               |           | VGAC-3 Effluent PID (ppm)                        | 0.0                             |                                 |        |          |           |      |  |
| VGAC-3 Influent Temp (DegF)               | 142             |           | Blower Effluent PID (ppm)                        | 1.8                             |                                 |        |          |           |      |  |
| Blower Effluent Pressure ("H2O)           | 20              |           |                                                  |                                 |                                 |        |          |           |      |  |
| Transfer Pump Total Runtime (hrs)         | 25,040.9        |           | Condensate Storage Tank Level (gal)              | 0                               |                                 |        |          |           |      |  |
| SVE Manifold Legs - Vacuum/Flow Rate/PID  |                 |           |                                                  |                                 |                                 |        |          |           |      |  |
|                                           | Vacuum          | Velocity  | Flow Rate                                        | PID                             |                                 | Vacuum | Velocity | Flow Rate | PID  |  |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)            | 52              | 8000      | 175                                              | 3.6                             | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)  | 45     | 4400     | 96        | 0.0  |  |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)            | 54              | 4600      | 100                                              | 13.8                            | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)  | 46     | 3100     | 68        | 2.7  |  |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)            | 46              | 5300      | 116                                              | 2.8                             | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 44     | 6800     | 148       | 20.8 |  |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)           | 45              | 4400      | 96                                               | 0.0                             | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)  | 48     | 3000     | 65        | 4.3  |  |
| Air Sparge System                         |                 |           |                                                  |                                 |                                 |        |          |           |      |  |
| Compressor 1 Pressure (psi)               | Off for repairs |           |                                                  | Compressor 2 Pressure (psi)     | 82                              |        |          |           |      |  |
| Compressor 1 Temperature (degF)           | Off for repairs |           |                                                  | Compressor 2 Temperature (degF) | 179                             |        |          |           |      |  |
| Compressor 1 Runtime (hrs)                | 27,317          |           |                                                  | Compressor 2 Runtime (hrs)      | 38,830                          |        |          |           |      |  |
| Manifold Regulator Pressure (psi)         | 70              |           |                                                  |                                 |                                 |        |          |           |      |  |
| AS Manifold Legs - Pressure/Flow Rate     |                 |           |                                                  |                                 |                                 |        |          |           |      |  |
|                                           | Pressure        | Flow Rate |                                                  | Pressure                        | Flow Rate                       |        |          |           |      |  |
| AS-1 (psi)/(cfm)                          | 17              | 10        | AS-11 (psi)/(cfm)                                | 16                              | 4                               |        |          |           |      |  |
| AS-2 (psi)/(cfm)                          | 16              | 7         | AS-12B (psi)/(cfm)                               | 17                              | 8                               |        |          |           |      |  |
| AS-3 (psi)/(cfm)                          | 16              | 7         | AS-13B (psi)/(cfm)                               | 15                              | 8                               |        |          |           |      |  |
| AS-4 (psi)/(cfm)                          | 15              | 4         | AS-14 (psi)/(cfm)                                | 17                              | 10                              |        |          |           |      |  |
| AS-5 (psi)/(cfm)                          | 17              | 6         | AS-15 (psi)/(cfm)                                | 17                              | 9                               |        |          |           |      |  |
| AS-6 (psi)/(cfm)                          | 17              | 8         | AS-16B (psi)/(cfm)                               | 15                              | 9                               |        |          |           |      |  |
| AS-7 (psi)/(cfm)                          | 15              | 5         | AS-17 (psi)/(cfm)                                | 16                              | 6                               |        |          |           |      |  |
| AS-8 (psi)/(cfm)                          | 17              | 9         | AS-18 (psi)/(cfm)                                | 16                              | 6                               |        |          |           |      |  |
| AS-9 (psi)/(cfm)                          | 17              | 7         | AS-19 (psi)/(cfm)                                | 16                              | 4                               |        |          |           |      |  |
| AS-10B (psi)/(cfm)                        | 15              | 10        |                                                  |                                 |                                 |        |          |           |      |  |

Notes, Comments & Observations:

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**Inspection, Maintenance, Lubrication Schedule**  
 Ensaf-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:** 14-Apr  
**Weather / Temp:** Clear / 50 DEG  
**Technician / Operator:** JW

**Arrival Time:** 8:30  
**Departure Time:** 9:00

| Maintenance Item                    | Perform     | Completed (yes/no) | Comments         |
|-------------------------------------|-------------|--------------------|------------------|
| <b>SVE Blower B-1</b>               |             |                    |                  |
| -Inspect                            | Weekly      | Y                  |                  |
| -Lubricate                          | As Required | N                  |                  |
| -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                  |                  |
| -Inspect Air Filter                 | Weekly      | Y                  |                  |
| -Amp Draw                           | Quarterly   | N                  |                  |
| -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 | Y                  |                  |
| <b>AS Compressor 1</b>              |             |                    |                  |
| -Inspect                            | Weekly      | N                  | Off for repairs. |
| -Lubricate                          | As Required | N                  |                  |
| -Inspect Filters                    | Weekly      | N                  |                  |
| -Amp Draw                           | Quarterly   | N                  |                  |
| <b>AS Compressor 2</b>              |             |                    |                  |
| -Inspect                            | Weekly      | Y                  |                  |
| -Lubricate                          | As Required | N                  |                  |
| -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                  |                  |

**Operation & Maintenance Data Sheet**  
 Ensafe-Frost Street  
 101 Frost Street  
 Westbury, NY

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

Date: 24-Apr  
 Weather / Temp: Rain / 50 DEG  
 Technician / Operator: JW

Arrival Time: 8:30  
 Departure Time: 9:30

| System Status                             |                 |           |                                                  |                                 |                                 |        |          |           |     |
|-------------------------------------------|-----------------|-----------|--------------------------------------------------|---------------------------------|---------------------------------|--------|----------|-----------|-----|
|                                           | Arrival         | Departure |                                                  | Arrival                         | Departure                       |        |          |           |     |
| SVE Blower 1 (ON/OFF)                     | OFF             | ON        | Sensaphone (ON/OFF)                              | ON                              | ON                              |        |          |           |     |
| SVE Blower 2 (ON/OFF)                     | ON              | OFF       | Surge Protection (ON/OFF)                        | ON                              | ON                              |        |          |           |     |
| AS Compressor 1 (ON/OFF)                  | OFF             | OFF       | Lightning Protection (White/Black)               | White                           | White                           |        |          |           |     |
| AS Compressor 2 (ON/OFF)                  | OFF             | ON        |                                                  |                                 |                                 |        |          |           |     |
| Soil Vapor Extraction System              |                 |           |                                                  |                                 |                                 |        |          |           |     |
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4300            | 844       | Blower 1 Total Runtime (hrs)                     | 58,823.4                        |                                 |        |          |           |     |
| Blower 1 Fresh Air Valve Open (%)         | 0               |           | Blower 2 Total Runtime (hrs)                     | 56,566.9                        |                                 |        |          |           |     |
| Blower 2 Fresh Air Valve Open (%)         | 0               |           | Blower 1 Air Filter Differential Pressure ("H2O) | 0                               |                                 |        |          |           |     |
| Moisture Separator Vacuum ("Hg)           | 4               |           | Blower 2 Air Filter Differential Pressure ("H2O) | 0                               |                                 |        |          |           |     |
| VGAC-1 Influent Vacuum ("H2O)             | 80              |           | VGAC-1 Effluent PID (ppm)                        | 3.3                             |                                 |        |          |           |     |
| VGAC-1 Effluent Vacuum ("H2O)             | 72              |           | VGAC-2 Effluent PID (ppm)                        | 2.0                             |                                 |        |          |           |     |
| VGAC-2 Influent Vacuum ("H2O)             | 65              |           | VGAC-2 Influent PID (ppm)                        | 3.3                             |                                 |        |          |           |     |
| VGAC-2 Effluent Vacuum ("H2O)             | 70              |           | VGAC-2 Effluent PID (ppm)                        | 2.0                             |                                 |        |          |           |     |
| VGAC-3 Influent Pressure ("H2O)           | 20              |           | VGAC-3 Influent PID (ppm)                        | 2.0                             |                                 |        |          |           |     |
| VGAC-3 Effluent Pressure ("H2O)           | 2               |           | VGAC-3 Effluent PID (ppm)                        | 0.0                             |                                 |        |          |           |     |
| VGAC-3 Influent Temp (DegF)               | 138             |           | Blower Effluent PID (ppm)                        | 2.0                             |                                 |        |          |           |     |
| Blower Effluent Pressure ("H2O)           | 20              |           |                                                  |                                 |                                 |        |          |           |     |
| Transfer Pump Total Runtime (hrs)         | 25,040.9        |           | Condensate Storage Tank Level (gal)              | 0                               |                                 |        |          |           |     |
| SVE Manifold Legs - Vacuum/Flow Rate/PID  |                 |           |                                                  |                                 |                                 |        |          |           |     |
|                                           | Vacuum          | Velocity  | Flow Rate                                        | PID                             |                                 | Vacuum | Velocity | Flow Rate | PID |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)            | 54              | 8000      | 175                                              |                                 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)  | 47     | 4400     | 96        |     |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)            | 54              | 4600      | 100                                              |                                 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)  | 48     | 3100     | 68        |     |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)            | 48              | 5300      | 116                                              |                                 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 46     | 6800     | 148       |     |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)           | 48              | 4400      | 96                                               |                                 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)  | 50     | 3000     | 65        |     |
| Air Sparge System                         |                 |           |                                                  |                                 |                                 |        |          |           |     |
| Compressor 1 Pressure (psi)               | Off for repairs |           |                                                  | Compressor 2 Pressure (psi)     | 87                              |        |          |           |     |
| Compressor 1 Temperature (degF)           | Off for repairs |           |                                                  | Compressor 2 Temperature (degF) | 184                             |        |          |           |     |
| Compressor 1 Runtime (hrs)                | 27,317          |           |                                                  | Compressor 2 Runtime (hrs)      | 39,019                          |        |          |           |     |
| Manifold Regulator Pressure (psi)         | 75              |           |                                                  |                                 |                                 |        |          |           |     |
| AS Manifold Legs - Pressure/Flow Rate     |                 |           |                                                  |                                 |                                 |        |          |           |     |
|                                           | Pressure        | Flow Rate |                                                  | Pressure                        | Flow Rate                       |        |          |           |     |
| AS-1 (psi)/(cfm)                          | 22              | 5         | AS-11 (psi)/(cfm)                                | 19                              | 10                              |        |          |           |     |
| AS-2 (psi)/(cfm)                          | 20              | 4         | AS-12B (psi)/(cfm)                               | 20                              | 5                               |        |          |           |     |
| AS-3 (psi)/(cfm)                          | 19              | 10        | AS-13B (psi)/(cfm)                               | 19                              | 6                               |        |          |           |     |
| AS-4 (psi)/(cfm)                          | 8               | 4         | AS-14 (psi)/(cfm)                                | 19                              | 8                               |        |          |           |     |
| AS-5 (psi)/(cfm)                          | 21              | 10        | AS-15 (psi)/(cfm)                                | 20                              | 9                               |        |          |           |     |
| AS-6 (psi)/(cfm)                          | 21              | 8         | AS-16B (psi)/(cfm)                               | 19                              | 8                               |        |          |           |     |
| AS-7 (psi)/(cfm)                          | 21              | 8         | AS-17 (psi)/(cfm)                                | 19                              | 4                               |        |          |           |     |
| AS-8 (psi)/(cfm)                          | 19              | 9         | AS-18 (psi)/(cfm)                                | 18                              | 8                               |        |          |           |     |
| AS-9 (psi)/(cfm)                          | 19              | 10        | AS-19 (psi)/(cfm)                                | 18                              | 10                              |        |          |           |     |
| AS-10B (psi)/(cfm)                        | 18              | 6         |                                                  |                                 |                                 |        |          |           |     |

**Notes, Comments & Observations:** \_\_\_\_\_

Compressor off upon arrival due to high temp and low oil level. Added oil and restarted.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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:** 24-Apr  
**Weather / Temp:** Rain / 50 DEG  
**Technician / Operator:** JW

**Arrival Time:** 8:30  
**Departure Time:** 9:30

| Maintenance Item                    | Perform     | Completed (yes/no) | Comments               |
|-------------------------------------|-------------|--------------------|------------------------|
| <b>SVE Blower B-1</b>               |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | N                  |                        |
| -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                  |                        |
| -Inspect Air Filter                 | Weekly      | Y                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| -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 | Y                  |                        |
| <b>AS Compressor 1</b>              |             |                    |                        |
| -Inspect                            | Weekly      | N                  | Off for repairs.       |
| -Lubricate                          | As Required | N                  |                        |
| -Inspect Filters                    | Weekly      | N                  |                        |
| -Amp Draw                           | Quarterly   | N                  |                        |
| <b>AS Compressor 2</b>              |             |                    |                        |
| -Inspect                            | Weekly      | Y                  |                        |
| -Lubricate                          | As Required | Y                  | Added 1-gallon of oil. |
| -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**



Friday, May 01, 2020

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

Project ID: ENSAFE-WESTBURY  
SDG ID: GCF79940  
Sample ID#s: CF79940 - CF79941

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

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

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

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



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



## Sample Id Cross Reference

May 01, 2020

SDG I.D.: GCF79940

Project ID: ENSAFE-WESTBURY

---

| Client Id    | Lab Id  | Matrix |
|--------------|---------|--------|
| SVE EFFLUENT | CF79940 | AIR    |
| SVE INFLUENT | CF79941 | 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

May 01, 2020

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

### Sample Information

Matrix: AIR  
Location Code: ENVIOTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 816

### Custody Information

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

### Date

04/24/20 9:11  
04/28/20 14:46

### Time

Project ID: ENSAFE-WESTBURY  
Client ID: SVE EFFLUENT

### Laboratory Data

SDG ID: GCF79940  
Phoenix ID: CF79940

| 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             | 0.146      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,1,1-Trichloroethane          | ND             | 0.183      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,1,2,2-Tetrachloroethane      | ND             | 0.146      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,1,2-Trichloroethane          | ND             | 0.183      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,1-Dichloroethane             | ND             | 0.247      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,1-Dichloroethene             | 0.175          | 0.051      | 0.69            | 0.20        | 04/30/20  | KCA | 1        |
| 1,2,4-Trichlorobenzene         | ND             | 0.135      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2,4-Trimethylbenzene         | ND             | 0.204      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2-Dibromoethane(EDB)         | ND             | 0.130      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2-Dichlorobenzene            | ND             | 0.166      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2-Dichloroethane             | ND             | 0.247      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2-dichloropropane            | ND             | 0.217      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,2-Dichlorotetrafluoroethane  | ND             | 0.143      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,3,5-Trimethylbenzene         | ND             | 0.204      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,3-Butadiene                  | ND             | 0.452      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,3-Dichlorobenzene            | ND             | 0.166      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,4-Dichlorobenzene            | ND             | 0.166      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 1,4-Dioxane                    | 0.963          | 0.278      | 3.47            | 1.00        | 04/30/20  | KCA | 1        |
| 2-Hexanone(MBK)                | 0.990          | 0.244      | 4.05            | 1.00        | 04/30/20  | KCA | 1        |
| 4-Ethyltoluene                 | ND             | 0.204      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 4-Isopropyltoluene             | ND             | 0.182      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| 4-Methyl-2-pentanone(MIBK)     | ND             | 0.244      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Acetone                        | 1.16           | 0.421      | 2.75            | 1.00        | 04/30/20  | KCA | 1        |
| Acrylonitrile                  | ND             | 0.461      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Benzene                        | ND             | 0.313      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Benzyl chloride                | ND             | 0.193      | ND              | 1.00        | 04/30/20  | KCA | 1        |

| Parameter                                | ppbv<br>Result | ppbv<br>RL | ug/m3<br>Result | ug/m3<br>RL | Date/Time | By  | Dilution |
|------------------------------------------|----------------|------------|-----------------|-------------|-----------|-----|----------|
| Bromodichloromethane                     | ND             | 0.149      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Bromoform                                | ND             | 0.097      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Bromomethane                             | ND             | 0.258      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Carbon Disulfide                         | ND             | 0.321      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Carbon Tetrachloride                     | ND             | 0.032      | ND              | 0.20        | 04/30/20  | KCA | 1        |
| Chlorobenzene                            | ND             | 0.217      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Chloroethane                             | ND             | 0.379      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Chloroform                               | ND             | 0.205      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Chloromethane                            | ND             | 0.485      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Cis-1,2-Dichloroethene                   | 0.322          | 0.051      | 1.28            | 0.20        | 04/30/20  | KCA | 1        |
| cis-1,3-Dichloropropene                  | ND             | 0.221      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Cyclohexane                              | ND             | 0.291      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Dibromochloromethane                     | ND             | 0.118      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Dichlorodifluoromethane                  | 0.248          | 0.202      | 1.23            | 1.00        | 04/30/20  | KCA | 1        |
| Ethanol                                  | 1.14           | 0.531      | 2.15            | 1.00        | 04/30/20  | KCA | 1 1      |
| Ethyl acetate                            | ND             | 0.278      | ND              | 1.00        | 04/30/20  | KCA | 1 1      |
| Ethylbenzene                             | ND             | 0.230      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Heptane                                  | ND             | 0.244      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Hexachlorobutadiene                      | ND             | 0.094      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Hexane                                   | ND             | 0.284      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Isopropylalcohol                         | ND             | 0.407      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Isopropylbenzene                         | ND             | 0.204      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| m,p-Xylene                               | ND             | 0.230      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Methyl Ethyl Ketone                      | 0.481          | 0.339      | 1.42            | 1.00        | 04/30/20  | KCA | 1        |
| Methyl tert-butyl ether(MTBE)            | ND             | 0.278      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Methylene Chloride                       | ND             | 0.864      | ND              | 3.00        | 04/30/20  | KCA | 1        |
| n-Butylbenzene                           | ND             | 0.182      | ND              | 1.00        | 04/30/20  | KCA | 1 1      |
| o-Xylene                                 | ND             | 0.230      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Propylene                                | ND             | 0.581      | ND              | 1.00        | 04/30/20  | KCA | 1 1      |
| sec-Butylbenzene                         | ND             | 0.182      | ND              | 1.00        | 04/30/20  | KCA | 1 1      |
| Styrene                                  | ND             | 0.235      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Tetrachloroethene                        | 0.267          | 0.037      | 1.81            | 0.25        | 04/30/20  | KCA | 1        |
| Tetrahydrofuran                          | ND             | 0.339      | ND              | 1.00        | 04/30/20  | KCA | 1 1      |
| Toluene                                  | ND             | 0.266      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Trans-1,2-Dichloroethene                 | ND             | 0.252      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| trans-1,3-Dichloropropene                | ND             | 0.221      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Trichloroethene                          | 0.546          | 0.037      | 2.93            | 0.20        | 04/30/20  | KCA | 1        |
| Trichlorofluoromethane                   | 0.219          | 0.178      | 1.23            | 1.00        | 04/30/20  | KCA | 1        |
| Trichlorotrifluoroethane                 | ND             | 0.131      | ND              | 1.00        | 04/30/20  | KCA | 1        |
| Vinyl Chloride                           | ND             | 0.078      | ND              | 0.20        | 04/30/20  | KCA | 1        |
| <b><u>QA/OC Surrogates/Internals</u></b> |                |            |                 |             |           |     |          |
| % Bromofluorobenzene                     | 97             | %          | 97              | %           | 04/30/20  | KCA | 1        |
| % IS-1,4-Difluorobenzene                 | 126            | %          | 126             | %           | 04/30/20  | KCA | 1        |
| % IS-Bromochloromethane                  | 125            | %          | 125             | %           | 04/30/20  | KCA | 1        |
| % IS-Chlorobenzene-d5                    | 119            | %          | 119             | %           | 04/30/20  | KCA | 1        |

| 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

May 01, 2020

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

May 01, 2020

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

### Sample Information

Matrix: AIR  
Location Code: ENVIOTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 767

### Custody Information

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

### Date

04/24/20 9:16  
04/28/20 14:46

### Time

Project ID: ENSAFE-WESTBURY  
Client ID: SVE INFLUENT

### Laboratory Data

SDG ID: GCF79940  
Phoenix ID: CF79941

| 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        | 04/28/20  | KCA | 5        |
| 1,1,1-Trichloroethane          | ND             | 0.917      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,1,2,2-Tetrachloroethane      | ND             | 0.729      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,1,2-Trichloroethane          | ND             | 0.917      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,1-Dichloroethane             | ND             | 1.24       | ND              | 5.02        | 04/28/20  | KCA | 5        |
| 1,1-Dichloroethene             | 0.725          | 0.252      | 2.87            | 1.00        | 04/28/20  | KCA | 5        |
| 1,2,4-Trichlorobenzene         | ND             | 0.674      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,2,4-Trimethylbenzene         | ND             | 1.02       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| 1,2-Dibromoethane(EDB)         | ND             | 0.651      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,2-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,2-Dichloroethane             | ND             | 1.24       | ND              | 5.02        | 04/28/20  | KCA | 5        |
| 1,2-dichloropropane            | ND             | 1.08       | ND              | 4.99        | 04/28/20  | KCA | 5        |
| 1,2-Dichlorotetrafluoroethane  | ND             | 0.716      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,3,5-Trimethylbenzene         | ND             | 1.02       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| 1,3-Butadiene                  | ND             | 2.26       | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,3-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,4-Dichlorobenzene            | ND             | 0.832      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 1,4-Dioxane                    | ND             | 1.39       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| 2-Hexanone(MBK)                | ND             | 1.22       | ND              | 4.99        | 04/28/20  | KCA | 5        |
| 4-Ethyltoluene                 | ND             | 1.02       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| 4-Isopropyltoluene             | ND             | 0.911      | ND              | 5.00        | 04/28/20  | KCA | 5        |
| 4-Methyl-2-pentanone(MIBK)     | ND             | 1.22       | ND              | 4.99        | 04/28/20  | KCA | 5        |
| Acetone                        | 8.40           | 2.11       | 19.9            | 5.01        | 04/28/20  | KCA | 5        |
| Acrylonitrile                  | ND             | 2.31       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| Benzene                        | ND             | 1.57       | ND              | 5.01        | 04/28/20  | KCA | 5        |
| Benzyl chloride                | ND             | 0.966      | ND              | 5.00        | 04/28/20  | 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        | 04/28/20  | KCA | 5        |   |
| Bromoform                                | ND             | 0.484      | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Bromomethane                             | ND             | 1.29       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Carbon Disulfide                         | ND             | 1.61       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Carbon Tetrachloride                     | ND             | 0.159      | ND              | 1.00        | 04/28/20  | KCA | 5        |   |
| Chlorobenzene                            | ND             | 1.09       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Chloroethane                             | ND             | 1.90       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Chloroform                               | ND             | 1.02       | ND              | 4.98        | 04/28/20  | KCA | 5        |   |
| Chloromethane                            | ND             | 2.42       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Cis-1,2-Dichloroethene                   | 24.4           | 0.252      | 96.7            | 1.00        | 04/28/20  | KCA | 5        |   |
| cis-1,3-Dichloropropene                  | ND             | 1.10       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Cyclohexane                              | ND             | 1.45       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Dibromochloromethane                     | ND             | 0.587      | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Dichlorodifluoromethane                  | ND             | 1.01       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Ethanol                                  | 5.83           | 2.66       | 11.0            | 5.01        | 04/28/20  | KCA | 5        | 1 |
| Ethyl acetate                            | ND             | 1.39       | ND              | 5.01        | 04/28/20  | KCA | 5        | 1 |
| Ethylbenzene                             | ND             | 1.15       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Heptane                                  | ND             | 1.22       | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Hexachlorobutadiene                      | ND             | 0.469      | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Hexane                                   | ND             | 1.42       | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Isopropylalcohol                         | ND             | 2.04       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Isopropylbenzene                         | ND             | 1.02       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| m,p-Xylene                               | ND             | 1.15       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Methyl Ethyl Ketone                      | ND             | 1.70       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Methyl tert-butyl ether(MTBE)            | ND             | 1.39       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Methylene Chloride                       | ND             | 4.32       | ND              | 15.0        | 04/28/20  | KCA | 5        |   |
| n-Butylbenzene                           | ND             | 0.911      | ND              | 5.00        | 04/28/20  | KCA | 5        | 1 |
| o-Xylene                                 | ND             | 1.15       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Propylene                                | ND             | 2.91       | ND              | 5.01        | 04/28/20  | KCA | 5        | 1 |
| sec-Butylbenzene                         | ND             | 0.911      | ND              | 5.00        | 04/28/20  | KCA | 5        | 1 |
| Styrene                                  | ND             | 1.17       | ND              | 4.98        | 04/28/20  | KCA | 5        |   |
| Tetrachloroethene                        | 632            | 2.77       | 4280            | 18.8        | 04/30/20  | KCA | 75       |   |
| Tetrahydrofuran                          | ND             | 1.70       | ND              | 5.01        | 04/28/20  | KCA | 5        | 1 |
| Toluene                                  | ND             | 1.33       | ND              | 5.01        | 04/28/20  | KCA | 5        |   |
| Trans-1,2-Dichloroethene                 | ND             | 1.26       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| trans-1,3-Dichloropropene                | ND             | 1.10       | ND              | 4.99        | 04/28/20  | KCA | 5        |   |
| Trichloroethene                          | 28.2           | 0.186      | 151             | 1.00        | 04/28/20  | KCA | 5        |   |
| Trichlorofluoromethane                   | ND             | 0.891      | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Trichlorotrifluoroethane                 | ND             | 0.653      | ND              | 5.00        | 04/28/20  | KCA | 5        |   |
| Vinyl Chloride                           | ND             | 0.391      | ND              | 1.00        | 04/28/20  | KCA | 5        |   |
| <b><u>QA/QC Surrogates/Internals</u></b> |                |            |                 |             |           |     |          |   |
| % Bromofluorobenzene (5x)                | 100            | %          | 100             | %           | 04/28/20  | KCA | 5        |   |
| % IS-1,4-Difluorobenzene (5x)            | 95             | %          | 95              | %           | 04/28/20  | KCA | 5        |   |
| % IS-Bromochloromethane (5x)             | 93             | %          | 93              | %           | 04/28/20  | KCA | 5        |   |
| % IS-Chlorobenzene-d5 (5x)               | 88             | %          | 88              | %           | 04/28/20  | KCA | 5        |   |
| % Bromofluorobenzene (75x)               | 98             | %          | 98              | %           | 04/30/20  | KCA | 75       |   |
| % IS-1,4-Difluorobenzene (75x)           | 112            | %          | 112             | %           | 04/30/20  | KCA | 75       |   |
| % IS-Bromochloromethane (75x)            | 111            | %          | 111             | %           | 04/30/20  | KCA | 75       |   |
| % IS-Chlorobenzene-d5 (75x)              | 104            | %          | 104             | %           | 04/30/20  | KCA | 75       |   |

| 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

May 01, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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



## Canister Sampling Information

May 01, 2020

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

Location Code: ENVIOTR

SDG I.D.: GCF79940

Project ID: ENSAFE-WESTBURY

| Client Id    | Lab Id  | Canister |      | Reg. Id | Chk Out Date | Laboratory |       |          |         |          | Field    |        |                     |                   |
|--------------|---------|----------|------|---------|--------------|------------|-------|----------|---------|----------|----------|--------|---------------------|-------------------|
|              |         | Id       | Type |         |              | Out Hg     | In Hg | Out Flow | In Flow | Flow RPD | Start Hg | End Hg | Sampling Start Date | Sampling End Date |
| SVE EFFLUENT | CF79940 | 816      | 1.4L |         | 04/14/20     | -30        | -1    |          | B SAM   |          |          |        | 04/24/20 9:10       | 04/24/20 9:11     |
| SVE INFLUENT | CF79941 | 767      | 1.4L |         | 04/14/20     | -30        | -6    |          | B SAM   |          |          |        | 04/24/20 9:15       | 04/24/20 9:16     |



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## QA/QC Report

May 01, 2020

### QA/QC Data

SDG I.D.: GCF79940

| 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 527928 (ppbv), QC Sample No: CF79430 (CF79941 (5X) ) |             |                   |              |                    |          |                           |                        |                          |                       |            |                    |                    |
| <b>Volatiles</b>                                                 |             |                   |              |                    |          |                           |                        |                          |                       |            |                    |                    |
| 1,1,1,2-Tetrachloroethane                                        | ND          | 0.150             | ND           | 1.03               | 111      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,1-Trichloroethane                                            | ND          | 0.180             | ND           | 0.98               | 116      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2,2-Tetrachloroethane                                        | ND          | 0.150             | ND           | 1.03               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1,2-Trichloroethane                                            | ND          | 0.180             | ND           | 0.98               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethane                                               | ND          | 0.250             | ND           | 1.01               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,1-Dichloroethene                                               | ND          | 0.050             | ND           | 0.20               | 111      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trichlorobenzene                                           | ND          | 0.130             | ND           | 0.96               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2,4-Trimethylbenzene                                           | ND          | 0.200             | ND           | 0.98               | 108      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dibromoethane(EDB)                                           | ND          | 0.130             | ND           | 1.00               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorobenzene                                              | ND          | 0.170             | ND           | 1.02               | 114      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichloroethane                                               | ND          | 0.250             | ND           | 1.01               | 115      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-dichloropropane                                              | ND          | 0.220             | ND           | 1.02               | 111      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,2-Dichlorotetrafluoroethane                                    | ND          | 0.140             | ND           | 0.98               | 99       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3,5-Trimethylbenzene                                           | ND          | 0.200             | ND           | 0.98               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Butadiene                                                    | ND          | 0.450             | ND           | 0.99               | 118      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,3-Dichlorobenzene                                              | ND          | 0.170             | ND           | 1.02               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dichlorobenzene                                              | ND          | 0.170             | ND           | 1.02               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 1,4-Dioxane                                                      | ND          | 0.280             | ND           | 1.01               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 2-Hexanone(MBK)                                                  | ND          | 0.240             | ND           | 0.98               | 113      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Ethyltoluene                                                   | ND          | 0.200             | ND           | 0.98               | 105      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Isopropyltoluene                                               | ND          | 0.180             | ND           | 0.99               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| 4-Methyl-2-pentanone(MIBK)                                       | ND          | 0.240             | ND           | 0.98               | 114      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Acetone                                                          | ND          | 0.420             | ND           | 1.00               | 121      | 8.59                      | 8.52                   | 3.62                     | 3.59                  | 0.8        | 70 - 130           | 25                 |
| Acrylonitrile                                                    | ND          | 0.460             | ND           | 1.00               | 103      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzene                                                          | ND          | 0.310             | ND           | 0.99               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzyl chloride                                                  | ND          | 0.190             | ND           | 0.98               | 130      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromodichloromethane                                             | ND          | 0.150             | ND           | 1.00               | 121      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromoform                                                        | ND          | 0.097             | ND           | 1.00               | 136      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromomethane                                                     | ND          | 0.260             | ND           | 1.01               | 114      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Disulfide                                                 | ND          | 0.320             | ND           | 1.00               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride                                             | ND          | 0.032             | ND           | 0.20               | 127      | 0.60                      | 0.57                   | 0.095                    | 0.090                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                                                    | ND          | 0.220             | ND           | 1.01               | 102      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroethane                                                     | ND          | 0.380             | ND           | 1.00               | 108      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroform                                                       | ND          | 0.200             | ND           | 0.98               | 114      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloromethane                                                    | ND          | 0.480             | ND           | 0.99               | 102      | 1.24                      | 1.22                   | 0.602                    | 0.593                 | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene                                           | ND          | 0.256             | ND           | 1.01               | 111      | 0.50                      | ND                     | 0.126                    | ND                    | NC         | 70 - 130           | 25                 |
| cis-1,3-Dichloropropene                                          | ND          | 0.220             | ND           | 1.00               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cyclohexane                                                      | ND          | 0.290             | ND           | 1.00               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dibromochloromethane                                             | ND          | 0.120             | ND           | 1.02               | 126      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane                                          | ND          | 0.200             | ND           | 0.99               | 112      | 2.95                      | 2.74                   | 0.597                    | 0.554                 | NC         | 70 - 130           | 25                 |
| Ethanol                                                          | ND          | 0.530             | ND           | 1.00               | 105      | 38.0                      | 36.7                   | 20.2                     | 19.5                  | 3.5        | 70 - 130           | 25                 |

# QA/QC Data

SDG I.D.: GCF79940

| 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               | 125      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Ethylbenzene                  | ND          | 0.230             | ND           | 1.00               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Heptane                       | ND          | 0.240             | ND           | 0.98               | 111      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexachlorobutadiene           | ND          | 0.094             | ND           | 1.00               | 103      | 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               | 108      | 6.24                      | 6.12                   | 2.54                     | 2.49                  | 2.0        | 70 - 130           | 25                 |
| Isopropylbenzene              | ND          | 0.200             | ND           | 0.98               | 102      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| m,p-Xylene                    | ND          | 0.230             | ND           | 1.00               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methyl Ethyl Ketone           | ND          | 0.340             | ND           | 1.00               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methyl tert-butyl ether(MTBE) | ND          | 0.280             | ND           | 1.01               | 108      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Methylene Chloride            | ND          | 0.860             | ND           | 2.99               | 115      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| n-Butylbenzene                | ND          | 0.180             | ND           | 0.99               | 110      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                      | ND          | 0.230             | ND           | 1.00               | 106      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Propylene                     | ND          | 0.580             | ND           | 1.00               | 113      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| sec-Butylbenzene              | ND          | 0.180             | ND           | 0.99               | 105      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Styrene                       | ND          | 0.230             | ND           | 0.98               | 106      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Tetrahydrofuran               | ND          | 0.340             | ND           | 1.00               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Toluene                       | ND          | 0.270             | ND           | 1.02               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trans-1,2-Dichloroethene      | ND          | 0.250             | ND           | 0.99               | 112      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| trans-1,3-Dichloropropene     | ND          | 0.220             | ND           | 1.00               | 119      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichloroethene               | ND          | 0.037             | ND           | 0.20               | 107      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichlorofluoromethane        | ND          | 0.180             | ND           | 1.01               | 117      | 1.47                      | 1.43                   | 0.262                    | 0.255                 | NC         | 70 - 130           | 25                 |
| Trichlorotrifluoroethane      | ND          | 0.130             | ND           | 1.00               | 114      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Vinyl Chloride                | ND          | 0.078             | ND           | 0.20               | 117      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene          | 97          | %                 | 97           | %                  | 102      | 98                        | 97                     | 98                       | 97                    | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene      | 101         | %                 | 101          | %                  | 99       | 97                        | 102                    | 97                       | 102                   | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane       | 101         | %                 | 101          | %                  | 99       | 99                        | 101                    | 99                       | 101                   | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5         | 100         | %                 | 100          | %                  | 100      | 98                        | 102                    | 98                       | 102                   | NC         | 60 - 140           | 25                 |

QA/QC Batch 528283 (ppbv), QC Sample No: CF79939 (CF79940, CF79941 (75X) )

## Volatiles

|                               |    |       |    |      |     |      |      |       |       |     |          |    |
|-------------------------------|----|-------|----|------|-----|------|------|-------|-------|-----|----------|----|
| 1,1,1,2-Tetrachloroethane     | ND | 0.150 | ND | 1.03 | 100 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,1,1-Trichloroethane         | ND | 0.180 | ND | 0.98 | 93  | 3.93 | 3.89 | 0.721 | 0.713 | NC  | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane     | ND | 0.150 | ND | 1.03 | 98  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,1,2-Trichloroethane         | ND | 0.180 | ND | 0.98 | 94  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,1-Dichloroethane            | ND | 0.250 | ND | 1.01 | 93  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,1-Dichloroethene            | ND | 0.050 | ND | 0.20 | 85  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene        | ND | 0.130 | ND | 0.96 | 100 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene        | ND | 0.200 | ND | 0.98 | 111 | 8.89 | 9.24 | 1.81  | 1.88  | 3.8 | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB)        | ND | 0.130 | ND | 1.00 | 101 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 99  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2-Dichloroethane            | ND | 0.250 | ND | 1.01 | 89  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2-dichloropropane           | ND | 0.220 | ND | 1.02 | 96  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.140 | ND | 0.98 | 72  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene        | ND | 0.200 | ND | 0.98 | 110 | 2.23 | 2.24 | 0.454 | 0.456 | NC  | 70 - 130 | 25 |
| 1,3-Butadiene                 | ND | 0.450 | ND | 0.99 | 98  | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,3-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 103 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,4-Dichlorobenzene           | ND | 0.170 | ND | 1.02 | 105 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 1,4-Dioxane                   | ND | 0.280 | ND | 1.01 | 103 | 3.85 | 4.03 | 1.07  | 1.12  | NC  | 70 - 130 | 25 |
| 2-Hexanone(MBK)               | ND | 0.240 | ND | 0.98 | 94  | ND   | 1.38 | ND    | 0.338 | NC  | 70 - 130 | 25 |
| 4-Ethyltoluene                | ND | 0.200 | ND | 0.98 | 110 | 10.1 | 10.4 | 2.06  | 2.12  | 2.9 | 70 - 130 | 25 |
| 4-Isopropyltoluene            | ND | 0.180 | ND | 0.99 | 107 | ND   | ND   | ND    | ND    | NC  | 70 - 130 | 25 |
| 4-Methyl-2-pentanone(MIBK)    | ND | 0.240 | ND | 0.98 | 93  | 10.8 | 10.9 | 2.63  | 2.67  | 1.5 | 70 - 130 | 25 |

## QA/QC Data

SDG I.D.: GCF79940

| 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 |
|-------------------------------|-------------|-------------------|--------------|--------------------|----------|---------------------------|------------------------|--------------------------|-----------------------|------------|--------------------|--------------------|
| Acetone                       | ND          | 0.420             | ND           | 1.00               | 77       | 91.4                      | 91.4                   | 38.5                     | 38.5                  | 0.0        | 70 - 130           | 25                 |
| Acrylonitrile                 | ND          | 0.460             | ND           | 1.00               | 89       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Benzene                       | ND          | 0.310             | ND           | 0.99               | 98       | 6.93                      | 6.80                   | 2.17                     | 2.13                  | 1.9        | 70 - 130           | 25                 |
| Benzyl chloride               | ND          | 0.190             | ND           | 0.98               | 105      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromodichloromethane          | ND          | 0.150             | ND           | 1.00               | 91       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromoform                     | ND          | 0.097             | ND           | 1.00               | 117      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Bromomethane                  | ND          | 0.260             | ND           | 1.01               | 87       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Disulfide              | ND          | 0.320             | ND           | 1.00               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Carbon Tetrachloride          | ND          | 0.032             | ND           | 0.20               | 93       | 0.40                      | 0.41                   | 0.064                    | 0.065                 | NC         | 70 - 130           | 25                 |
| Chlorobenzene                 | ND          | 0.220             | ND           | 1.01               | 104      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroethane                  | ND          | 0.380             | ND           | 1.00               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloroform                    | ND          | 0.200             | ND           | 0.98               | 93       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Chloromethane                 | ND          | 0.480             | ND           | 0.99               | 77       | 1.16                      | 1.16                   | 0.561                    | 0.563                 | NC         | 70 - 130           | 25                 |
| Cis-1,2-Dichloroethene        | ND          | 0.256             | ND           | 1.01               | 99       | 0.42                      | ND                     | 0.107                    | ND                    | NC         | 70 - 130           | 25                 |
| cis-1,3-Dichloropropene       | ND          | 0.220             | ND           | 1.00               | 99       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Cyclohexane                   | ND          | 0.290             | ND           | 1.00               | 104      | 1.08                      | 1.10                   | 0.314                    | 0.320                 | NC         | 70 - 130           | 25                 |
| Dibromochloromethane          | ND          | 0.120             | ND           | 1.02               | 100      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Dichlorodifluoromethane       | ND          | 0.200             | ND           | 0.99               | 78       | 1.44                      | 1.37                   | 0.292                    | 0.278                 | NC         | 70 - 130           | 25                 |
| Ethanol                       | ND          | 0.530             | ND           | 1.00               | 78       | 139 E                     | 136                    | 73.7 E                   | 72.2                  | 2.1        | 70 - 130           | 25                 |
| Ethyl acetate                 | ND          | 0.280             | ND           | 1.01               | 100      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Ethylbenzene                  | ND          | 0.230             | ND           | 1.00               | 106      | 7.55                      | 7.72                   | 1.74                     | 1.78                  | 2.3        | 70 - 130           | 25                 |
| Heptane                       | ND          | 0.240             | ND           | 0.98               | 100      | 4.22                      | 4.38                   | 1.03                     | 1.07                  | NC         | 70 - 130           | 25                 |
| Hexachlorobutadiene           | ND          | 0.094             | ND           | 1.00               | 88       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Hexane                        | ND          | 0.280             | ND           | 0.99               | 103      | 2.14                      | 2.15                   | 0.608                    | 0.609                 | NC         | 70 - 130           | 25                 |
| Isopropylalcohol              | ND          | 0.410             | ND           | 1.01               | 84       | ND                        | 13.4                   | ND                       | 5.45                  | NC         | 70 - 130           | 25                 |
| Isopropylbenzene              | ND          | 0.200             | ND           | 0.98               | 112      | ND                        | 0.98                   | ND                       | 0.200                 | NC         | 70 - 130           | 25                 |
| m,p-Xylene                    | ND          | 0.230             | ND           | 1.00               | 112      | 31.3                      | 32.1                   | 7.21                     | 7.40                  | 2.6        | 70 - 130           | 25                 |
| Methyl Ethyl Ketone           | ND          | 0.340             | ND           | 1.00               | 88       | 5.84                      | 5.60                   | 1.98                     | 1.90                  | 4.1        | 70 - 130           | 25                 |
| Methyl tert-butyl ether(MTBE) | ND          | 0.280             | ND           | 1.01               | 99       | 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               | 100      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| o-Xylene                      | ND          | 0.230             | ND           | 1.00               | 113      | 10.9                      | 11.1                   | 2.51                     | 2.55                  | 1.6        | 70 - 130           | 25                 |
| Propylene                     | ND          | 0.580             | ND           | 1.00               | 91       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| sec-Butylbenzene              | ND          | 0.180             | ND           | 0.99               | 106      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Styrene                       | ND          | 0.230             | ND           | 0.98               | 113      | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Tetrachloroethene             | ND          | 0.037             | ND           | 0.25               | 103      | 8.81                      | 9.02                   | 1.30                     | 1.33                  | 2.3        | 70 - 130           | 25                 |
| Tetrahydrofuran               | ND          | 0.340             | ND           | 1.00               | 90       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Toluene                       | ND          | 0.270             | ND           | 1.02               | 104      | 28.7                      | 29.3                   | 7.63                     | 7.77                  | 1.8        | 70 - 130           | 25                 |
| Trans-1,2-Dichloroethene      | ND          | 0.250             | ND           | 0.99               | 93       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| trans-1,3-Dichloropropene     | ND          | 0.220             | ND           | 1.00               | 97       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| Trichloroethene               | ND          | 0.037             | ND           | 0.20               | 106      | 3.56                      | 3.57                   | 0.663                    | 0.664                 | 0.2        | 70 - 130           | 25                 |
| Trichlorofluoromethane        | ND          | 0.180             | ND           | 1.01               | 83       | 1.02                      | 1.02                   | 0.181                    | 0.181                 | 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               | 96       | ND                        | ND                     | ND                       | ND                    | NC         | 70 - 130           | 25                 |
| % Bromofluorobenzene          | 96          | %                 | 96           | %                  | 101      | 101                       | 103                    | 101                      | 103                   | NC         | 70 - 130           | 25                 |
| % IS-1,4-Difluorobenzene      | 115         | %                 | 115          | %                  | 126      | 118                       | 117                    | 118                      | 117                   | NC         | 60 - 140           | 25                 |
| % IS-Bromochloromethane       | 116         | %                 | 116          | %                  | 124      | 114                       | 116                    | 114                      | 116                   | NC         | 60 - 140           | 25                 |
| % IS-Chlorobenzene-d5         | 111         | %                 | 111          | %                  | 119      | 114                       | 113                    | 114                      | 113                   | NC         | 60 - 140           | 25                 |

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

## QA/QC Data

SDG I.D.: GCF79940

| Parameter | Blk  | Blk  | Blk   | Blk   | LCS | Sample | Sample | Sample | Sample | DUP | %      | %      |
|-----------|------|------|-------|-------|-----|--------|--------|--------|--------|-----|--------|--------|
|           | ppbv | RL   | ug/m3 | RL    | %   | Result | Dup    | Result | Dup    | RPD | Rec    | RPD    |
|           |      | ppbv |       | ug/m3 |     | ug/m3  | ug/m3  | ppbv   | ppbv   |     | Limits | 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

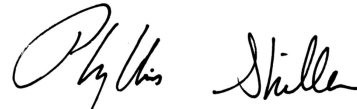
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director  
May 01, 2020

Friday, May 01, 2020

Criteria: None

State: NY

## Sample Criteria Exceedances Report

GCF79940 - 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.



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## Analysis Comments

May 01, 2020

SDG I.D.: GCF79940

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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: None.

