ENSAFE
a global professional services company
creative thinking. **custom solutions.®**

*1233 Silas Deane Highway | Wethersfield, Connecticut 06109 | Telephone 860-665-1140 | Fax 860-665-9445 | www.ensafe.com*

*Via email to Jeffrey.dyber@dec.ny.gov*

August 10, 2017

Mr. Jeffrey Dyber, P.E.
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: July 2017
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe Inc. is pleased to submit the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in July 2017.

**Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M)**

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**).
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted after the carbon exchange, on July 19, 2017, using Summa canisters. The summa canister for the influent sample malfunctioned, and the sample was recollected on July 31, 2017. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in **Appendix B**.
    - Influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction. Photoionization detector readings between the lead and lag activated carbon media vessels and in the effluent air stream exhibit 0.0 parts per million total volatile organic compounds.
    - Effluent concentrations are well below the allowable limits, as shown in the table below.

| Frost Street Sites<br>Effluent Compliance | | | |
|---|---|---|---|
| **System Flow Rate =** | | 800 | $ft^3/m$ |
| **Compound** | **Annual Mass Emission Limit (lbs/year)** | **Allowable Continuous Annual Concentration ($\mu g/m^3$)** | **July 2017 Effluent Concentration ($\mu g/m^3$)** |
| Trichloroethene | 500 | 19,000 | 8.43 |
| Tetrachloroethene | 1,000 | 38,000 | 19.5 |
| Vinyl Chloride | 100 | 3,800 | ND |
| Cis-1,2-Dichloroethene | 100 | 3,800 | 262 |

**Notes:**

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

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

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.

## Quarterly/Annual Groundwater Monitoring

- The second quarter 2017 groundwater sampling event was completed during the week of June 19, 2017. The samples are being analyzed and will be validated by a third party data validator. Results will be included in a forthcoming report, when available.

If you have any questions or require additional information, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by

Alexandra M. J. Stark

Alexandra Stark, P.E.

Copies: A. Tamuno, Esq., NYSDEC *Via email to amtamuno@gw.dec.state.ny.us*
G. Bobersky, NYSDEC *Via email to gtbobers@gw.dec.state.ny.us*
C. Bethoney, NYSDOH *Via email to charlotte.bethoney@health.ny.gov*
J. Nealon, NYSDOH *Via email to jacquelyn.nealon@health.ny.gov*
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| | |
|---|---|
| P. Coop, EnSafe | *Via email to pcoop@ensafe.com* |
| J. Parillo, EnSafe | *Via email to jparillo@ensafe.com* |
| J. Wilkinson, Envirotrac | *Via email to jamesw@envirotrac.com* |

**Appendix A**

**SVE/AS System O&M 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-Jul
**Weather / Temp:** Clear / 80 DEG
**Technician / Operator:** DW

**Arrival Time:** 14:00
**Departure Time:** 15:00

**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) | 4800 | 942 | Blower 1 Total Runtime (hrs) | 47,238.2 |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 47,151.1 |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 |
| VGAC-1 Influent Vacuum ("H2O) | 62 | | VGAC-1 Influent PID (ppm) | 6.0 |
| VGAC-1 Effluent Vacuum ("H2O) | 54 | | VGAC-1 Effluent PID (ppm) | 0.0 |
| VGAC-2 Influent Vacuum ("H2O) | 50 | | VGAC-2 Influent PID (ppm) | 6.0 |
| VGAC-2 Effluent Vacuum ("H2O) | 48 | | VGAC-2 Effluent PID (ppm) | 0.0 |
| VGAC-3 Influent Vacuum ("H2O) | 45 | | VGAC-3 Influent PID (ppm) | 0.0 |
| VGAC-3 Effluent Vacuum ("H2O) | 49 | | VGAC-3 Effluent PID (ppm) | 0.0 |
| Blower Effluent Temp (DegF) | NA | | Blower Effluent PID (ppm) | 0.0 |
| Blower Effluent Pressure ("H2O) | 11 | | | |
| Transfer Pump Total Runtime (hrs) | 25,026.0 | | Condensate Storage Tank Level (gal) | 100 |

**SVE Manifold Legs - Vacuum/Flow Rate/PID**

| | Vacuum | Velocity | Flow Rate | PID | | Vacuum | Velocity | Flow Rate | PID |
|---|---|---|---|---|---|---|---|---|---|
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 6500 | 142 | | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 4000 | 87 | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 4000 | 87 | | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 2800 | 61 | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 4500 | 98 | | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 5500 | 120 | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 4000 | 87 | | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 34 | 2800 | 61 | |

**Air Sparge System**

| | | | |
|---|---|---|---|
| Compressor 1 Pressure (psi) | Off for repairs | Compressor 2 Pressure (psi) | 80 |
| Compressor 1 Temperature (degF) | Off for repairs | Compressor 2 Temperature (degF) | 215 |
| Compressor 1 Runtime (hrs) | 27,317.0 | Compressor 2 Runtime (hrs) | 22,308.0 |
| Manifold Regulator Pressure (psi) | 70 | | |

**AS Manifold Legs - Pressure/Flow Rate**

| | Pressure | Flow Rate | | Pressure | Flow Rate |
|---|---|---|---|---|---|
| AS-1 (psi)/(cfm) | 15 | 10 | AS-11 (psi)/(cfm) | 13 | 4 |
| AS-2 (psi)/(cfm) | 15 | 8 | AS-12B (psi)/(cfm) | 13 | 8 |
| AS-3 (psi)/(cfm) | 13 | 6 | AS-13B (psi)/(cfm) | 13 | 15 |
| AS-4 (psi)/(cfm) | 14 | 7 | AS-14 (psi)/(cfm) | 14 | 10 |
| AS-5 (psi)/(cfm) | 14 | 6 | AS-15 (psi)/(cfm) | 14 | 10 |
| AS-6 (psi)/(cfm) | 13 | 10 | AS-16B (psi)/(cfm) | 14 | 10 |
| AS-7 (psi)/(cfm) | 13 | 4 | AS-17 (psi)/(cfm) | 14 | 4 |
| AS-8 (psi)/(cfm) | 13 | 10 | AS-18 (psi)/(cfm) | 9 | 5 |
| AS-9 (psi)/(cfm) | 13 | 8 | AS-19 (psi)/(cfm) | 13 | 4 |
| AS-10B (psi)/(cfm) | 14 | 10 | | | |

**Notes, Comments & Observations:**

**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:** 11-Jul
**Weather / Temp:** Sunny / 80 DEG
**Technician / Operator:** JW

**Arrival Time:** 9:00
**Departure Time:** 11:00

| 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) | OFF | ON | | | |

| Soil Vapor Extraction System | | | | |
|---|---|---|---|---|
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4300 | 844 | Blower 1 Total Runtime (hrs) | 47,336.1 |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 47,248.3 |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 |
| VGAC-1 Influent Vacuum ("H2O) | 62 | | VGAC-1 Influent PID (ppm) | 6.4 |
| VGAC-1 Effluent Vacuum ("H2O) | 54 | | VGAC-1 Effluent PID (ppm) | 0.0 |
| VGAC-2 Influent Vacuum ("H2O) | 40 | | VGAC-2 Influent PID (ppm) | 6.4 |
| VGAC-2 Effluent Vacuum ("H2O) | 48 | | VGAC-2 Effluent PID (ppm) | 0.0 |
| VGAC-3 Influent Vacuum ("H2O) | 46 | | VGAC-3 Influent PID (ppm) | 0.0 |
| VGAC-3 Effluent Vacuum ("H2O) | 48 | | VGAC-3 Effluent PID (ppm) | 0.0 |
| Blower Effluent Temp (DegF) | NA | | Blower Effluent PID (ppm) | 0.0 |
| Blower Effluent Pressure ("H2O) | 10 | | | |
| Transfer Pump Total Runtime (hrs) | 25,026.0 | | Condensate Storage Tank Level (gal) | 100 |

| SVE Manifold Legs - Vacuum/Flow Rate/PID | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Vacuum | Velocity | Flow Rate | PID | | Vacuum | Velocity | Flow Rate | PID |
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 38 | 6000 | 131 | | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 3800 | 83 | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 3000 | 65 | | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 2600 | 57 | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 4300 | 94 | | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 5400 | 118 | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 28 | 3800 | 83 | | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 2700 | 59 | |

| Air Sparge System | | | |
|---|---|---|---|
| Compressor 1 Pressure (psi) | Off for repairs | Compressor 2 Pressure (psi) | 84 |
| Compressor 1 Temperature (degF) | Off for repairs | Compressor 2 Temperature (degF) | 198 |
| Compressor 1 Runtime (hrs) | 27,317.0 | Compressor 2 Runtime (hrs) | 22,456.0 |
| Manifold Regulator Pressure (psi) | 75 | | |

| AS Manifold Legs - Pressure/Flow Rate | | | | | |
|---|---|---|---|---|---|
| | Pressure | Flow Rate | | Pressure | Flow Rate |
| AS-1 (psi)/(cfm) | 17 | 7 | AS-11 (psi)/(cfm) | 15 | 8 |
| AS-2 (psi)/(cfm) | 15 | 5 | AS-12B (psi)/(cfm) | 16 | 7 |
| AS-3 (psi)/(cfm) | 15 | 10 | AS-13B (psi)/(cfm) | 15 | 9 |
| AS-4 (psi)/(cfm) | 15 | 5 | AS-14 (psi)/(cfm) | 16 | 9 |
| AS-5 (psi)/(cfm) | 16 | 12 | AS-15 (psi)/(cfm) | 17 | 10 |
| AS-6 (psi)/(cfm) | 16 | 8 | AS-16B (psi)/(cfm) | 15 | 8 |
| AS-7 (psi)/(cfm) | 16 | 9 | AS-17 (psi)/(cfm) | 16 | 5 |
| AS-8 (psi)/(cfm) | 15 | 10 | AS-18 (psi)/(cfm) | 14 | 7 |
| AS-9 (psi)/(cfm) | 16 | 13 | AS-19 (psi)/(cfm) | 15 | 9 |
| AS-10B (psi)/(cfm) | 15 | 8 | | | |

**Notes, Comments & Observations:**

AS compressor off upon arrival due to high temp alarm, changed air coller filter and added oil.

**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:** 19-Jul
**Weather / Temp:** Sunny / 95 DEG
**Technician / Operator:** JW

**Arrival Time:** 9:00
**Departure Time:** 12:00

**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) | 47,436.2 |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 47,340.7 |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 |
| VGAC-1 Influent Vacuum ("H2O) | 62 | | VGAC-1 Influent PID (ppm) | 3.1 |
| VGAC-1 Effluent Vacuum ("H2O) | 54 | | VGAC-1 Effluent PID (ppm) | 0.0 |
| VGAC-2 Influent Vacuum ("H2O) | 40 | | VGAC-2 Influent PID (ppm) | 3.1 |
| VGAC-2 Effluent Vacuum ("H2O) | 48 | | VGAC-2 Effluent PID (ppm) | 0.0 |
| VGAC-3 Influent Vacuum ("H2O) | 46 | | VGAC-3 Influent PID (ppm) | 0.0 |
| VGAC-3 Effluent Vacuum ("H2O) | 48 | | VGAC-3 Effluent PID (ppm) | 0.0 |
| Blower Effluent Temp (DegF) | NA | | Blower Effluent PID (ppm) | 0.0 |
| Blower Effluent Pressure ("H2O) | 10 | | | |
| Transfer Pump Total Runtime (hrs) | 25,026.0 | | Condensate Storage Tank Level (gal) | 100 |

**SVE Manifold Legs - Vacuum/Flow Rate/PID**

| | Vacuum | Velocity | Flow Rate | PID | | Vacuum | Velocity | Flow Rate | PID |
|---|---|---|---|---|---|---|---|---|---|
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 36 | 6000 | 131 | 13.2 | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 3700 | 81 | 0.0 |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 3500 | 76 | 5.5 | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 2600 | 57 | 0.0 |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 4200 | 92 | 4.0 | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 5500 | 120 | 12.0 |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 28 | 3800 | 83 | 0.0 | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 2650 | 58 | 0.0 |

**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) | 203 |
| Compressor 1 Runtime (hrs) | 27,317.0 | Compressor 2 Runtime (hrs) | 22,648.0 |
| Manifold Regulator Pressure (psi) | 75 | | |

**AS Manifold Legs - Pressure/Flow Rate**

| | Pressure | Flow Rate | | Pressure | Flow Rate |
|---|---|---|---|---|---|
| AS-1 (psi)/(cfm) | 15 | 9 | AS-11 (psi)/(cfm) | 14 | 4 |
| AS-2 (psi)/(cfm) | 13.5 | 5 | AS-12B (psi)/(cfm) | 14 | 5 |
| AS-3 (psi)/(cfm) | 13.5 | 6 | AS-13B (psi)/(cfm) | 14 | 10 |
| AS-4 (psi)/(cfm) | 14 | 9 | AS-14 (psi)/(cfm) | 15 | 10 |
| AS-5 (psi)/(cfm) | 15 | 9 | AS-15 (psi)/(cfm) | 15 | 8 |
| AS-6 (psi)/(cfm) | 14 | 7 | AS-16B (psi)/(cfm) | 14 | 7 |
| AS-7 (psi)/(cfm) | 14 | 5 | AS-17 (psi)/(cfm) | 15 | 4 |
| AS-8 (psi)/(cfm) | 13.5 | 10 | AS-18 (psi)/(cfm) | 10 | 7 |
| AS-9 (psi)/(cfm) | 13.5 | 10 | AS-19 (psi)/(cfm) | 13 | 4 |
| AS-10B (psi)/(cfm) | 14.5 | 10 | | | |

**Notes, Comments & Observations:**

Added 1-gallon of oil to air compresor. Both drums of compressor oil/water mixture are full and need to be removed.

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

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

**Date:** 26-Jul
**Weather / Temp:** Sunny / 80 DEG
**Technician / Operator:** JW

**Arrival Time:** 10:30
**Departure Time:** 11:30

**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) | ON | ON | | | |

**Soil Vapor Extraction System**

| | | | | |
|---|---|---|---|---|
| Blower Air Velocity/Flow Rate (fpm)/(cfm) | 4200 | 825 | Blower 1 Total Runtime (hrs) | 47,520.4 |
| Blower 1 Fresh Air Valve Open (%) | 0 | | Blower 2 Total Runtime (hrs) | 47,424.6 |
| Blower 2 Fresh Air Valve Open (%) | 0 | | Blower 1 Air Filter Differential Pressure ("H2O) | 0 |
| Moisture Separator Vacuum ("Hg) | 3 | | Blower 2 Air Filter Differential Pressure ("H2O) | 0 |
| VGAC-1 Influent Vacuum ("H2O) | 62 | | VGAC-1 Influent PID (ppm) | 4.0 |
| VGAC-1 Effluent Vacuum ("H2O) | 54 | | VGAC-1 Effluent PID (ppm) | 0.0 |
| VGAC-2 Influent Vacuum ("H2O) | 42 | | VGAC-2 Influent PID (ppm) | 4.0 |
| VGAC-2 Effluent Vacuum ("H2O) | 48 | | VGAC-2 Effluent PID (ppm) | 0.0 |
| VGAC-3 Influent Vacuum ("H2O) | 46 | | VGAC-3 Influent PID (ppm) | 0.0 |
| VGAC-3 Effluent Vacuum ("H2O) | 48 | | VGAC-3 Effluent PID (ppm) | 0.0 |
| Blower Effluent Temp (DegF) | NA | | Blower Effluent PID (ppm) | 0.0 |
| Blower Effluent Pressure ("H2O) | 10 | | | |
| Transfer Pump Total Runtime (hrs) | 25,026.0 | | Condensate Storage Tank Level (gal) | 100 |

**SVE Manifold Legs - Vacuum/Flow Rate/PID**

| | Vacuum | Velocity | Flow Rate | PID | | Vacuum | Velocity | Flow Rate | PID |
|---|---|---|---|---|---|---|---|---|---|
| SVE-1 ("H2O)/(FPM)/(cfm)/(ppm) | 38 | 6000 | 131 | | SVE-4 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 3700 | 81 | |
| SVE-2 ("H2O)/(FPM)/(cfm)/(ppm) | 40 | 3400 | 74 | | SVE-5 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 2600 | 57 | |
| SVE-3 ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 4200 | 92 | | SVE-6B ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 5500 | 120 | |
| SVE-3A ("H2O)/(FPM)/(cfm)/(ppm) | 30 | 3800 | 83 | | SVE-7 ("H2O)/(FPM)/(cfm)/(ppm) | 32 | 2650 | 58 | |

**Air Sparge System**

| | | | |
|---|---|---|---|
| Compressor 1 Pressure (psi) | Off for repairs | Compressor 2 Pressure (psi) | 89 |
| Compressor 1 Temperature (degF) | Off for repairs | Compressor 2 Temperature (degF) | 197 |
| Compressor 1 Runtime (hrs) | 27,317.0 | Compressor 2 Runtime (hrs) | 22,816.0 |
| Manifold Regulator Pressure (psi) | 80 | | |

**AS Manifold Legs - Pressure/Flow Rate**

| | Pressure | Flow Rate | | Pressure | Flow Rate |
|---|---|---|---|---|---|
| AS-1 (psi)/(cfm) | 15 | 10 | AS-11 (psi)/(cfm) | 13 | 4 |
| AS-2 (psi)/(cfm) | 13 | 7 | AS-12B (psi)/(cfm) | 13 | 9 |
| AS-3 (psi)/(cfm) | 13 | 6 | AS-13B (psi)/(cfm) | 13 | 12 |
| AS-4 (psi)/(cfm) | 13 | 10 | AS-14 (psi)/(cfm) | 14 | 11 |
| AS-5 (psi)/(cfm) | 13 | 8 | AS-15 (psi)/(cfm) | 14 | 11 |
| AS-6 (psi)/(cfm) | 13 | 8 | AS-16B (psi)/(cfm) | 13 | 11 |
| AS-7 (psi)/(cfm) | 14 | 4 | AS-17 (psi)/(cfm) | 14 | 5 |
| AS-8 (psi)/(cfm) | 13 | 11 | AS-18 (psi)/(cfm) | 10 | 7 |
| AS-9 (psi)/(cfm) | 14 | 11 | AS-19 (psi)/(cfm) | 13 | 4 |
| AS-10B (psi)/(cfm) | 14 | 10 | | | |

**Notes, Comments & Observations:**

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

| Alarm Date | Site Visit Date | Personnel | ALARM DESCRIPTION | Corrective Action | SVE Status Upon Departure | AS Status Upon Departure |
|---|---|---|---|---|---|---|
| 7/9/2017 | 7/11/2017 | JW | AS Fault - compressor off due to high temperature alarm. High ambient temperatures | Replaced air compressor air cooler filter, added oil, restarted. | ON | ON |
| | | | | | | |
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**Appendix B**

**SVE System Influent/Effluent Sampling (TO-15)**

**Laboratory Analytical Results**

PHOENIX
Environmental Laboratories, Inc.

**Tuesday, August 01, 2017**

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

**Project ID: ENSAFE-WESTBURY**
**Sample ID#s: BY70112**

**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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**VT Lab Registration #VT11301**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 01, 2017

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | JW | 07/19/17 | 7:41 |
| Location Code: | ENVIROTR | Received by: | LB | 07/21/17 | 16:04 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |
| Canister Id: | 718 | | | | |

## Laboratory Data

SDG ID: GBY70112
Phoenix ID: BY70112

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

| Parameter | ppbv Result | | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | *0.292* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| 1,1,1-Trichloroethane | ND | | *0.367* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,1,2,2-Tetrachloroethane | ND | | *0.292* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,1,2-Trichloroethane | ND | | *0.367* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,1-Dichloroethane | ND | | *0.494* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,1-Dichloroethene | ND | | *0.505* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2,4-Trichlorobenzene | ND | | *0.270* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2,4-Trimethylbenzene | ND | | *0.407* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2-Dibromoethane(EDB) | ND | | *0.260* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2-Dichlorobenzene | ND | | *0.333* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2-Dichloroethane | ND | | *0.494* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2-dichloropropane | ND | | *0.433* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,2-Dichlorotetrafluoroethane | ND | | *0.286* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,3,5-Trimethylbenzene | ND | | *0.407* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,3-Butadiene | ND | | *0.905* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,3-Dichlorobenzene | ND | | *0.333* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,4-Dichlorobenzene | ND | | *0.333* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 1,4-Dioxane | ND | | *0.555* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| 2-Hexanone(MBK) | ND | | *0.489* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| 4-Ethyltoluene | ND | | *0.407* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| 4-Isopropyltoluene | ND | | *0.365* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | | *0.489* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Acetone | 4.00 | S | *0.843* | 9.50 | *2.00* | 07/27/17 | KCA | 2 | |
| Acrylonitrile | ND | | *0.922* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Benzene | ND | | *0.626* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Benzyl chloride | ND | | *0.387* | ND | *2.00* | 07/27/17 | KCA | 2 | |

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: BY70112

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.299* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Bromoform | ND | *0.194* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Bromomethane | ND | *0.515* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Carbon Disulfide | ND | *0.643* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Carbon Tetrachloride | ND | *0.079* | ND | *0.50* | 07/27/17 | KCA | 2 | |
| Chlorobenzene | ND | *0.435* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Chloroethane | ND | *0.758* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Chloroform | ND | *0.410* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Chloromethane | ND | *0.969* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Cis-1,2-Dichloroethene | 66.2 | *0.505* | 262 | *2.00* | 07/27/17 | KCA | 2 | |
| cis-1,3-Dichloropropene | ND | *0.441* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Cyclohexane | ND | *0.581* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Dibromochloromethane | ND | *0.235* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Dichlorodifluoromethane | 0.592 | *0.405* | 2.93 | *2.00* | 07/27/17 | KCA | 2 | |
| Ethanol | 1.84 | *1.06* | 3.46 | *2.00* | 07/27/17 | KCA | 2 | 1 |
| Ethyl acetate | ND | *0.555* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| Ethylbenzene | ND | *0.461* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Heptane | ND | *0.488* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Hexachlorobutadiene | ND | *0.188* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Hexane | ND | *0.568* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Isopropylalcohol | 4.43 | *0.814* | 10.9 | *2.00* | 07/27/17 | KCA | 2 | |
| Isopropylbenzene | ND | *0.407* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| m,p-Xylene | ND | *0.461* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Methyl Ethyl Ketone | ND | *0.679* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.555* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Methylene Chloride | ND | *0.576* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| n-Butylbenzene | ND | *0.365* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| o-Xylene | ND | *0.461* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Propylene | ND | *1.16* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| sec-Butylbenzene | ND | *0.365* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| Styrene | ND | *0.470* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Tetrachloroethene | 2.88 | *0.074* | 19.5 | *0.50* | 07/27/17 | KCA | 2 | |
| Tetrahydrofuran | ND | *0.679* | ND | *2.00* | 07/27/17 | KCA | 2 | 1 |
| Toluene | ND | *0.531* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Trans-1,2-Dichloroethene | 1.17 | *0.505* | 4.64 | *2.00* | 07/27/17 | KCA | 2 | |
| trans-1,3-Dichloropropene | ND | *0.441* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Trichloroethene | 1.57 | *0.093* | 8.43 | *0.50* | 07/27/17 | KCA | 2 | |
| Trichlorofluoromethane | ND | *0.356* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Trichlorotrifluoroethane | ND | *0.261* | ND | *2.00* | 07/27/17 | KCA | 2 | |
| Vinyl Chloride | ND | *0.196* | ND | *0.50* | 07/27/17 | KCA | 2 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 98 | *%* | 98 | *%* | 07/27/17 | KCA | 2 | |

**Ver 1**

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: BY70112

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

1 = This parameter is not certified by 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**August 01, 2017**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

August 01, 2017

## QA/QC Data

SDG I.D.: GBY70112

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 395465 (ppbv), QC Sample No: BY71877 (BY70112 (2X) ) | | | | | | | | | | | | |
| **Volatiles** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane | ND | 0.183 | ND | 1.00 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 0.146 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane | ND | 0.183 | ND | 1.00 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane | ND | 0.247 | ND | 1.00 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene | ND | 0.252 | ND | 1.00 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene | ND | 0.135 | ND | 1.00 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB) | ND | 0.130 | ND | 1.00 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane | ND | 0.247 | ND | 1.00 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-dichloropropane | ND | 0.216 | ND | 1.00 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.143 | ND | 1.00 | 122 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene | ND | 0.204 | ND | 1.00 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Butadiene | ND | 0.452 | ND | 1.00 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene | ND | 0.166 | ND | 1.00 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dioxane | ND | 0.278 | ND | 1.00 | 122 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK) | ND | 0.244 | ND | 1.00 | 129 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Ethyltoluene | ND | 0.204 | ND | 1.00 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Isopropyltoluene | ND | 0.182 | ND | 1.00 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.244 | ND | 1.00 | 132 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Acetone | ND | 0.421 | ND | 1.00 | 110 | 14.0 | 14.6 | 5.88 | 6.17 | 4.8 | 70 - 130 | 25 |
| Acrylonitrile | ND | 0.461 | ND | 1.00 | 126 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzene | ND | 0.313 | ND | 1.00 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzyl chloride | ND | 0.193 | ND | 1.00 | 126 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromodichloromethane | ND | 0.149 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromoform | ND | 0.097 | ND | 1.00 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromomethane | ND | 0.257 | ND | 1.00 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Disulfide | ND | 0.321 | ND | 1.00 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Tetrachloride | ND | 0.040 | ND | 0.25 | 105 | 0.50 | 0.52 | 0.079 | 0.082 | NC | 70 - 130 | 25 |
| Chlorobenzene | ND | 0.217 | ND | 1.00 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroethane | ND | 0.379 | ND | 1.00 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroform | ND | 0.205 | ND | 1.00 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloromethane | ND | 0.484 | ND | 1.00 | 119 | 1.22 | 1.35 | 0.593 | 0.652 | NC | 70 - 130 | 25 |
| Cis-1,2-Dichloroethene | ND | 0.256 | ND | 1.01 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| cis-1,3-Dichloropropene | ND | 0.220 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cyclohexane | ND | 0.291 | ND | 1.00 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dibromochloromethane | ND | 0.117 | ND | 1.00 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dichlorodifluoromethane | ND | 0.202 | ND | 1.00 | 118 | 2.46 | 2.54 | 0.498 | 0.514 | NC | 70 - 130 | 25 |
| Ethanol | ND | 0.531 | ND | 1.00 | 127 | 6.35 | 6.46 | 3.37 | 3.43 | 1.8 | 70 - 130 | 25 |

# QA/QC Data

SDG I.D.: GBY70112

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethyl acetate | ND | 0.278 | ND | 1.00 | 161 | ND | ND | ND | ND | NC | 70 - 130 | 25 | I |
| Ethylbenzene | ND | 0.230 | ND | 1.00 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Heptane | ND | 0.244 | ND | 1.00 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Hexachlorobutadiene | ND | 0.094 | ND | 1.00 | 95 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Hexane | ND | 0.284 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Isopropylalcohol | ND | 0.407 | ND | 1.00 | 111 | 2.20 | 2.17 | 0.895 | 0.885 | NC | 70 - 130 | 25 | |
| Isopropylbenzene | ND | 0.204 | ND | 1.00 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| m,p-Xylene | ND | 0.230 | ND | 1.00 | 117 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Methyl Ethyl Ketone | ND | 0.339 | ND | 1.00 | 130 | 1.27 | 1.26 | 0.432 | 0.426 | NC | 70 - 130 | 25 | |
| Methyl tert-butyl ether(MTBE) | ND | 0.277 | ND | 1.00 | 119 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Methylene Chloride | ND | 0.288 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| n-Butylbenzene | ND | 0.182 | ND | 1.00 | 116 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| o-Xylene | ND | 0.230 | ND | 1.00 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Propylene | ND | 0.581 | ND | 1.00 | 120 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| sec-Butylbenzene | ND | 0.182 | ND | 1.00 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Styrene | ND | 0.235 | ND | 1.00 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Tetrachloroethene | ND | 0.037 | ND | 0.25 | 95 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Tetrahydrofuran | ND | 0.339 | ND | 1.00 | 137 | ND | ND | ND | ND | NC | 70 - 130 | 25 | I |
| Toluene | ND | 0.266 | ND | 1.00 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Trans-1,2-Dichloroethene | ND | 0.252 | ND | 1.00 | 115 | 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 | 0.047 | ND | 0.25 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Trichlorofluoromethane | ND | 0.178 | ND | 1.00 | 112 | 1.39 | 1.50 | 0.248 | 0.267 | NC | 70 - 130 | 25 | |
| Trichlorotrifluoroethane | ND | 0.131 | ND | 1.00 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Vinyl Chloride | ND | 0.098 | ND | 0.25 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| % Bromofluorobenzene | 115 | % | 115 | % | 103 | 98 | 98 | 98 | 98 | NC | 70 - 130 | 25 | |

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
August 01, 2017

Tuesday, August 01, 2017

Criteria: None

State: NY

# Sample Criteria Exceedances Report

## GBY70112 - ENVIROTR

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Comments

August 01, 2017 SDG I.D.: GBY70112

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

# CHAIN OF CUSTODY RECORD
## AIR ANALYSES

**PHOENIX** *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

800-827-5426
email: greg@phoenixlabs.com

P.O. # Page 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: jamesw@envirotrac.com
☐ Phone #:

| | | |
|---|---|---|
| Report to: JIM WILKINSON | Invoice to: ENVIROTRAC | Project Name: ENCAP - WESTBURY |
| Customer: EnviroTrac Ltd | | Requested Deliverable: RCP ☐ ASP CAT B ☐ |
| Address: 5 Old Dock Road | | MCP ☐ NJ Deliverables ☐ |
| Yaphank, NY 11980 | Sampled by: JIM WILKINSON | State where samples collected: |

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab ( G ) Composite ( C ) | TO-14 | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 70112 | SVE EFFLUENT | 718 | 1.4 | -30 | | N/A | N/A | 7:40 | 7:41 | 7/19 | NA | NA | | | G | | ✓ |
| 70113 | SVE INFLUENT | 790 | 1.4 | -30 | | N/A | N/A | 7:45 | 7:46 | 7/19 | NA | NA | | | G | | ✓ |
| | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | |
| | 1.4L GRABS | | | | | | | | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 7-21-17 | 8:00 |
| | TOWN | 7/21/17 | 1604 |

Data Format:
Excel ☑ Equis ☐ GISKey ☐
PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

*I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:*

Signature: Date:

## Bobbi Aloisa

**From:** Bobbi Aloisa
**Sent:** Friday, July 28, 2017 12:35 PM
**To:** jamesw@envirotrac.com
**Cc:** Bobbi Aloisa
**Subject:** Problem with Westbury air sample
**Attachments:** GBY70112-ChainofCustody-1.pdf

HI James
On the attached chain, it appears that one of our summas was faulty and did not sample properly. It is SVE Influent (70113). It came back to the lab at -30 and did not sample. I am very sorry for any inconvenience but we will not be able to report a result for that sample.

If you have any questions please let me know

Bobbi

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

PHOENIX
Environmental Laboratories, Inc.

**Tuesday, August 08, 2017**

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

**Project ID: ENSAFE WESTBURY**
**Sample ID#s: BY76597**

**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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.**

**Sincerely yours,**

**Phyllis Shiller**
**Laboratory Director**

**NELAC - #NY11301**
**CT Lab Registration #PH-0618**
**MA Lab Registration #M-CT007**
**ME Lab Registration #CT-007**
**NH Lab Registration #213693-A,B**
**NJ Lab Registration #CT-003**
**NY Lab Registration #11301**
**PA Lab Registration #68-03530**
**RI Lab Registration #63**
**VT Lab Registration #VT11301**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

August 08, 2017

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | JW | 07/31/17 | 9:51 |
| Location Code: | ENVIROTR | Received by: | B | 08/02/17 | 15:35 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |
| Canister Id: | 815 | | | | |

## Laboratory Data

SDG ID: GBY76597
Phoenix ID: BY76597

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 0.756 | *0.183* | 4.12 | *1.00* | 08/03/17 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Acetone | 4.27 | *0.421* | 10.1 | *1.00* | 08/03/17 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Benzene | ND | *0.313* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 08/03/17 | KCA | 1 | |

**Ver 1**

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: BY76597

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Bromoform | ND | *0.097* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Carbon Tetrachloride | 0.079 | *0.040* | 0.50 | *0.25* | 08/03/17 | KCA | 1 | |
| Chlorobenzene | 0.354 | *0.217* | 1.63 | *1.00* | 08/03/17 | KCA | 1 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Chloroform | 0.232 | *0.205* | 1.13 | *1.00* | 08/03/17 | KCA | 1 | |
| Chloromethane | ND | *0.485* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Cis-1,2-Dichloroethene | 147 | *2.52* | 582 | *10.0* | 08/04/17 | KCA | 10 | |
| cis-1,3-Dichloropropene | ND | *0.221* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Dichlorodifluoromethane | 0.510 | *0.202* | 2.52 | *1.00* | 08/03/17 | KCA | 1 | |
| Ethanol | 4.46 | *0.531* | 8.40 | *1.00* | 08/03/17 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| Ethylbenzene | ND | *0.230* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Heptane | ND | *0.244* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Hexane | ND | *0.284* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Isopropylalcohol | 0.774 | *0.407* | 1.90 | *1.00* | 08/03/17 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| m,p-Xylene | ND | *0.230* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Methyl Ethyl Ketone | 1.45 | *0.339* | 4.27 | *1.00* | 08/03/17 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Methylene Chloride | ND | *0.288* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Propylene | ND | *0.581* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 08/03/17 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Tetrachloroethene | 2670 | *3.69* | 18100 | *25.0* | 08/04/17 | KCA | 100 | |
| Tetrahydrofuran | 0.968 | *0.339* | 2.85 | *1.00* | 08/03/17 | KCA | 1 | 1 |
| Toluene | ND | *0.266* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Trans-1,2-Dichloroethene | 2.21 | *0.252* | 8.76 | *1.00* | 08/03/17 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Trichloroethene | 226 | *0.466* | 1210 | *2.50* | 08/04/17 | KCA | 10 | |
| Trichlorofluoromethane | 0.279 | *0.178* | 1.57 | *1.00* | 08/03/17 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | ND | *1.00* | 08/03/17 | KCA | 1 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 08/03/17 | KCA | 1 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 118 | *%* | 118 | *%* | 08/03/17 | KCA | 1 | |

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: BY76597

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

1 = This parameter is not certified by 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**
**August 08, 2017**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

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

NY # 11301

# QA/QC Report

August 08, 2017

## QA/QC Data

SDG I.D.: GBY76597

| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 396624 (ppbv), QC Sample No: BY76172 (BY76597 (100X) ) | | | | | | | | | | | | |
| Volatiles | | | | | | | | | | | | |
| Tetrachloroethene | ND | 0.037 | ND | 0.25 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |

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
August 08, 2017

Tuesday, August 08, 2017

Criteria: None

State: NY

# Sample Criteria Exceedances Report

## GBY76597 - ENVIROTR

| SampNo | Acode | Phoenix Analyte | Criteria | Result | RL | Criteria | RL Criteria | Analysis Units |
|---|---|---|---|---|---|---|---|---|

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Comments

August 08, 2017 SDG I.D.: GBY76597

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

***AIRSIM***

**CHEM24 08/03/17-1:** BY76597

The following Continuing Calibration compounds did not meet % deviation criteria: 1,2,4-Trichlorobenzene(sim) 38%H (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: 1,2,4-Trichlorobenzene(sim) 38%H (30%)

# CHAIN OF CUSTODY RECORD
## AIR ANALYSES

**PHOENIX** *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

800-827-5426

email: greg@phoenixlabs.com

P.O. # | Page 1 of 1

Data Delivery:
☐ Fax #:
☐ Email:
☐ Phone #:

Report to: James Wilkinson
Customer: Envirotrac
Address: 5 Old Dock Rd
Yaphank, NY 11980

Invoice to: EnviroTrac

Sampled by: Jim Wilkinson

Project Name: Ensafe - Westbury

Requested Deliverable:
RCP ☐ ASP CAT B ☐
MCP ☐ NJ Deliverables ☐

State where samples collected:

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab ( G ) Composite ( C ) | TO-14 | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 76597 | SVE Influent | 815 | 1.4 | -30 | | | | 9:50 | 9:51 | 7/31 | | | | | G | | ✓ |
| 76598 | ↓ | 769 | ↓ | ↓ | | | | 9:51 | 9:52 | ↓ | | | | | G | | ✓ |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
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| Relinquished by | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 8/2/17 | 10:10 |
| | TROWN | 8/2/17 | 15:35 |

Data Format:
Excel ☑ Equis ☐ GISKey ☐
PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

DUPLICATE SAMPLE COLLECTED 1.4L Grab
DUE TO MALFUNCTION OF
PREVIOUS CANISTER. ONLY REPORT 1-SAMPLE.

Requested Criteria

Quote Number:

*I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:*

Signature: Date: