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1233 Silas Deane Highway | Wethersfield, Connecticut 06109 | Telephone 860-665-1140 | Fax 860-665-9445 | [www.ensafe.com](http://www.ensafe.com)

*Via email to [rob.decandia@dec.ny.gov](mailto:rob.decandia@dec.ny.gov)*

August 12, 2019

Mr. Robert D. DeCandia Jr. P.E.  
NYSDEC, Division of Environmental Remediation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233-7015

Re: Progress Report: July 2019  
Frost Street Sites: Site ID #s 1-30043 I, L, M  
New Cassel Industrial Area, Westbury, New York

Dear Mr. DeCandia:

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in July 2019.

**Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M) (OU1)**

- 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**). Two alarm calls were received in July 2019 due to high temperature and were rectified by resetting the thermal and restarting the system.
- The Frost Street Parties submitted a proposal for system reconfiguration/optimization to support site redevelopment efforts on September 27, 2018. NYSDEC preliminary comments were received via email on December 20, 2018; once a formal comment letter is received, the Frost Street Parties will prepare a response and/or revised proposal, as needed.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on July 19, 2019, 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, cis-1,2-dichloroethene, and vinyl chloride [15,413 µg/m<sup>3</sup>]) continue to indicate significant mass extraction.

Frost Street Sites Effluent Compliance				
System Flow Rate =		800	ft <sup>3</sup> /m	
Compound	Annual Mass Emission Limit (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m <sup>3</sup> ) <sup>2</sup>	July 2019 Effluent Concentration (µg/m <sup>3</sup> )	
Trichloroethene	500	19,000		0.74
Tetrachloroethene	1,000	38,000		49.2
Vinyl Chloride	100	3,800		ND
Cis-1,2-Dichloroethene <sup>1</sup>	100	3,800		68.2

**Notes:**

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

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

**Groundwater Extraction/Hydraulic Containment System Installation (OU2)**

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 July 2019 except from July 16, 2019 at approximately 5:00 pm through July 19, 2019 at approximately 10:00 am, which is likely due to high winds in the area at the time of the outage.

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 second quarter 2019 groundwater sampling event, which sampled all active Frost Street Sites' wells, was completed from June 17 to June 24, 2019. The data was submitted to NYSDEC via electronic data deliverable on July 29, 2019; the report will be submitted once complete.

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

Sincerely,

EnSafe, Inc., by

Alexandra Stark, P.E.

Attachments

Copies: A. Tamuno, Esq., NYSDEC	<i>Via email to amtamuno@gw.dec.state.ny.us</i>
C. Bethoney, NYSDOH	<i>Via email to charlotte.bethoney@health.ny.gov</i>
J. Nealon, NYSDOH	<i>Via email to jacquelyn.nealon@health.ny.gov</i>
R. Putnam, NCDOH	<i>Via email to rputnam@nassaucountyny.gov</i>
J. Vasquez, U.S. EPA	<i>Via email to vazquez.julio@epa.gov</i>
T. Pupilla, Sanders Equities	<i>Via email to tpupilla@sandersequities.com</i>
K. Maldonado, Esq.	<i>Via email to kevinmaldonado64@yahoo.com</i>
J. Privitera, Esq.	<i>Via email to 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**  
**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:** 2-Jul  
**Weather / Temp:** Sunny / 80 DEG  
**Technician / Operator:** JW

**Arrival Time:** 9:30  
**Departure Time:** 10:30

System Status					
	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	ON	OFF	Sensaphone (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	OFF	ON	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)	4600	903	Blower 1 Total Runtime (hrs)	55,239.1	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	53,455.4	
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)	34		VGAC-1 Influent PID (ppm)	6.0	
VGAC-1 Effluent Vacuum ("H2O)	35		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	30		VGAC-2 Influent PID (ppm)	6.0	
VGAC-2 Effluent Vacuum ("H2O)	35		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Vacuum ("H2O)	40		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Vacuum ("H2O)	45		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	15				
Transfer Pump Total Runtime (hrs)	25,035.9		Condensate Storage Tank Level (gal)	100	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	39	6000	131	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3800	83	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3700	81	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs		Compressor 2 Pressure (psi)	91	
Compressor 1 Temperature (degF)	Off for repairs		Compressor 2 Temperature (degF)	206	
Compressor 1 Runtime (hrs)	27,317		Compressor 2 Runtime (hrs)	33,247	
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)	14	4
AS-2 (psi)/(cfm)	15	6	AS-12B (psi)/(cfm)	15	8
AS-3 (psi)/(cfm)	14	6	AS-13B (psi)/(cfm)	15	8
AS-4 (psi)/(cfm)	0	20	AS-14 (psi)/(cfm)	17	10
AS-5 (psi)/(cfm)	16	7	AS-15 (psi)/(cfm)	14	8
AS-6 (psi)/(cfm)	16	8	AS-16B (psi)/(cfm)	15	10
AS-7 (psi)/(cfm)	16	5	AS-17 (psi)/(cfm)	16	5
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	16	7
AS-9 (psi)/(cfm)	15	7	AS-19 (psi)/(cfm)	14	4
AS-10B (psi)/(cfm)	15	10			

**Notes, Comments & Observations:**

AS-4 pipe cracked on manifold, shut off.

**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:** 12-Jul  
**Weather / Temp:** Sunny / 85 DEG  
**Technician / Operator:** JW

**Arrival Time:** 9:30  
**Departure Time:** 10:30

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)	4600	903	Blower 1 Total Runtime (hrs)	55,359.0	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	53,575.3	
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)	34		VGAC-1 Influent PID (ppm)	5.4	
VGAC-1 Effluent Vacuum ("H2O)	35		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	30		VGAC-2 Influent PID (ppm)	5.4	
VGAC-2 Effluent Vacuum ("H2O)	35		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Vacuum ("H2O)	40		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Vacuum ("H2O)	44		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	15				
Transfer Pump Total Runtime (hrs)	25,035.9		Condensate Storage Tank Level (gal)	100	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3800	83	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs		Compressor 2 Pressure (psi)	92	
Compressor 1 Temperature (degF)	Off for repairs		Compressor 2 Temperature (degF)	198	
Compressor 1 Runtime (hrs)	27,317		Compressor 2 Runtime (hrs)	33,465	
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)	14	4
AS-2 (psi)/(cfm)	15	8	AS-12B (psi)/(cfm)	15	8
AS-3 (psi)/(cfm)	15	8	AS-13B (psi)/(cfm)	15	8
AS-4 (psi)/(cfm)			AS-14 (psi)/(cfm)	17	10
AS-5 (psi)/(cfm)	15	7	AS-15 (psi)/(cfm)	14	8
AS-6 (psi)/(cfm)	15	8	AS-16B (psi)/(cfm)	15	10
AS-7 (psi)/(cfm)	15	5	AS-17 (psi)/(cfm)	16	5
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	16	7
AS-9 (psi)/(cfm)	15	7	AS-19 (psi)/(cfm)	14	4
AS-10B (psi)/(cfm)	15	10			

**Notes, Comments & Observations:**

AS-4 pipe cracked on manifold, shut off.

**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 / 80 DEG  
**Technician / Operator:** JW

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

System Status					
	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	OFF	ON	Sensaphone (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	ON	OFF	Surge Protection (ON/OFF)	ON	ON
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White
AS Compressor 2 (ON/OFF)	ON	ON			
Soil Vapor Extraction System					
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4600	903	Blower 1 Total Runtime (hrs)	55,443.0	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	53,659.8	
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)	35		VGAC-1 Influent PID (ppm)	3.8	
VGAC-1 Effluent Vacuum ("H2O)	35		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	32		VGAC-2 Influent PID (ppm)	3.8	
VGAC-2 Effluent Vacuum ("H2O)	34		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Vacuum ("H2O)	40		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Vacuum ("H2O)	45		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	15				
Transfer Pump Total Runtime (hrs)	25,035.9		Condensate Storage Tank Level (gal)	100	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	0.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3500	76	5.4	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4200	92	4.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3700	81	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
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)	193	
Compressor 1 Runtime (hrs)	27,317		Compressor 2 Runtime (hrs)	33,520	
Manifold Regulator Pressure (psi)	75				
AS Manifold Legs - Pressure/Flow Rate					
	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)	16	10	AS-11 (psi)/(cfm)	15	4
AS-2 (psi)/(cfm)	15	5	AS-12B (psi)/(cfm)	16	7
AS-3 (psi)/(cfm)	15	5	AS-13B (psi)/(cfm)	15	7
AS-4 (psi)/(cfm)			AS-14 (psi)/(cfm)	17	10
AS-5 (psi)/(cfm)	16	7	AS-15 (psi)/(cfm)	15	8
AS-6 (psi)/(cfm)	16	8	AS-16B (psi)/(cfm)	15	9
AS-7 (psi)/(cfm)	16	4	AS-17 (psi)/(cfm)	16	6
AS-8 (psi)/(cfm)	15	9	AS-18 (psi)/(cfm)	16	7
AS-9 (psi)/(cfm)	16	6	AS-19 (psi)/(cfm)	15	4
AS-10B (psi)/(cfm)	15	9			

**Notes, Comments & Observations:**

AS-4 pipe cracked on manifold, shut off.

Collected monthly samples.

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

**Arrival Time:** 9:30  
**Departure Time:** 10:00

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)	4600	903	Blower 1 Total Runtime (hrs)	55,519.3	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	53,727.7	
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)	35		VGAC-1 Influent PID (ppm)	1.4	
VGAC-1 Effluent Vacuum ("H2O)	35		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	32		VGAC-2 Influent PID (ppm)	1.4	
VGAC-2 Effluent Vacuum ("H2O)	34		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Vacuum ("H2O)	40		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Vacuum ("H2O)	45		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	15				
Transfer Pump Total Runtime (hrs)	25,035.9		Condensate Storage Tank Level (gal)	100	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3500	76	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4100	89	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30
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)	190	
Compressor 1 Runtime (hrs)	27,317		Compressor 2 Runtime (hrs)	33,545	
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)	15	5
AS-2 (psi)/(cfm)	15	5	AS-12B (psi)/(cfm)	16	8
AS-3 (psi)/(cfm)	15	5	AS-13B (psi)/(cfm)	16	8
AS-4 (psi)/(cfm)			AS-14 (psi)/(cfm)	116	10
AS-5 (psi)/(cfm)	16	8	AS-15 (psi)/(cfm)	15	8
AS-6 (psi)/(cfm)	16	8	AS-16B (psi)/(cfm)	15	7
AS-7 (psi)/(cfm)	16	4	AS-17 (psi)/(cfm)	15	6
AS-8 (psi)/(cfm)	15	10	AS-18 (psi)/(cfm)	15	7
AS-9 (psi)/(cfm)	16	7	AS-19 (psi)/(cfm)	15	4
AS-10B (psi)/(cfm)	15	9			

**Notes, Comments & Observations:**

AS-4 pipe cracked on manifold, shut off.

AS compressor off upon arrival due to tripped thermal overload. Reset overload, restarted system.

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

**Appendix B**  
**SVE System Influent/Effluent Sampling (TO-15)**  
**Laboratory Analytical Results**



Friday, July 26, 2019

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

Project ID: ENSAFE-WESTBURY  
SDG ID: GCD62844  
Sample ID#s: CD62844 - CD62845

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 that reads "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

July 26, 2019

SDG I.D.: GCD62844

Project ID: ENSAFE-WESTBURY

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Client Id	Lab Id	Matrix
SVE EFFLUENT	CD62844	AIR
SVE INFLUENT	CD62845	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

July 26, 2019

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

### Sample Information

Matrix: AIR  
Location Code: ENVIROTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 811  
Project ID: ENSAFE-WESTBURY  
Client ID: SVE EFFLUENT

### Custody Information

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

Date

07/19/19 9:46  
07/23/19 15:02

Time

SDG ID: GCD62844  
Phoenix ID: CD62844

### Laboratory Data

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	07/25/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	07/25/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	07/25/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	07/25/19	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	07/25/19	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	07/25/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	07/25/19	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	07/25/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	07/25/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	07/25/19	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	07/25/19	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	07/25/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	07/25/19	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	07/25/19	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	07/25/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	07/25/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	07/25/19	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	07/25/19	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	07/25/19	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	07/25/19	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	07/25/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	07/25/19	KCA	1
Acetone	2.74	0.421	6.50	1.00	07/25/19	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	07/25/19	KCA	1
Benzene	ND	0.313	ND	1.00	07/25/19	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	07/25/19	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	07/25/19	KCA	1
Bromoform	ND	0.097	ND	1.00	07/25/19	KCA	1
Bromomethane	ND	0.258	ND	1.00	07/25/19	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	07/25/19	KCA	1
Carbon Tetrachloride	ND	0.032	ND	0.20	07/25/19	KCA	1
Chlorobenzene	0.259	0.217	1.19	1.00	07/25/19	KCA	1
Chloroethane	ND	0.379	ND	1.00	07/25/19	KCA	1
Chloroform	ND	0.205	ND	1.00	07/25/19	KCA	1
Chloromethane	ND	0.485	ND	1.00	07/25/19	KCA	1
Cis-1,2-Dichloroethene	17.2	0.051	68.2	0.20	07/25/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	07/25/19	KCA	1
Cyclohexane	ND	0.291	ND	1.00	07/25/19	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	07/25/19	KCA	1
Dichlorodifluoromethane	0.416	0.202	2.06	1.00	07/25/19	KCA	1
Ethanol	2.93	0.531	5.52	1.00	07/25/19	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	07/25/19	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	07/25/19	KCA	1
Heptane	ND	0.244	ND	1.00	07/25/19	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	07/25/19	KCA	1
Hexane	ND	0.284	ND	1.00	07/25/19	KCA	1
Isopropylalcohol	1.60	0.407	3.93	1.00	07/25/19	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	07/25/19	KCA	1
m,p-Xylene	1.11	0.230	4.82	1.00	07/25/19	KCA	1
Methyl Ethyl Ketone	6.80	0.339	20.0	1.00	07/25/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	07/25/19	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	07/25/19	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	07/25/19	KCA	1
o-Xylene	0.333	0.230	1.45	1.00	07/25/19	KCA	1
Propylene	ND	0.581	ND	1.00	07/25/19	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	07/25/19	KCA	1
Styrene	ND	0.235	ND	1.00	07/25/19	KCA	1
Tetrachloroethene	7.26	0.037	49.2	0.25	07/25/19	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	07/25/19	KCA	1
Toluene	0.333	0.266	1.25	1.00	07/25/19	KCA	1
Trans-1,2-Dichloroethene	0.308	0.252	1.22	1.00	07/25/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	07/25/19	KCA	1
Trichloroethene	0.138	0.037	0.74	0.20	07/25/19	KCA	1
Trichlorofluoromethane	ND	0.178	ND	1.00	07/25/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	07/25/19	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	07/25/19	KCA	1
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene	102	%	102	%	07/25/19	KCA	1
% IS-1,4-Difluorobenzene	110	%	110	%	07/25/19	KCA	1
% IS-Bromochloromethane	94	%	94	%	07/25/19	KCA	1
% IS-Chlorobenzene-d5	104	%	104	%	07/25/19	KCA	1

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

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

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

**Comments:**

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



Phyllis Shiller, Laboratory Director

July 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



## Environmental Laboratories, Inc.

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

# Analysis Report

July 26, 2019

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

### Sample Information

Matrix: AIR  
Location Code: ENVIROTR  
Rush Request: Standard  
P.O.#:  
Canister Id: 770  
Project ID: ENSAFE-WESTBURY  
Client ID: SVE INFLUENT

### Custody Information

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

Date

Time

07/19/19

9:51

07/23/19

15:02

SDG ID: GCD62844

Phoenix ID: CD62845

### Laboratory Data

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	07/24/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	07/24/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	07/24/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	07/24/19	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	07/24/19	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	07/24/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	07/24/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	07/24/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	07/24/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	07/24/19	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	07/24/19	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	07/24/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	07/24/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	07/24/19	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	07/24/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	07/24/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	07/24/19	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	07/24/19	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	07/24/19	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	07/24/19	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	07/24/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	07/24/19	KCA	5
Acetone	7.75	2.11	18.4	5.01	07/24/19	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	07/24/19	KCA	5
Benzene	ND	1.57	ND	5.01	07/24/19	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	07/24/19	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	ND	5.00	07/24/19	KCA	5
Bromoform	ND	0.484	ND	5.00	07/24/19	KCA	5
Bromomethane	ND	1.29	ND	5.01	07/24/19	KCA	5
Carbon Disulfide	ND	1.61	ND	5.01	07/24/19	KCA	5
Carbon Tetrachloride	ND	0.159	ND	1.00	07/24/19	KCA	5
Chlorobenzene	ND	1.09	ND	5.01	07/24/19	KCA	5
Chloroethane	ND	1.90	ND	5.01	07/24/19	KCA	5
Chloroform	ND	1.02	ND	4.98	07/24/19	KCA	5
Chloromethane	ND	2.42	ND	4.99	07/24/19	KCA	5
Cis-1,2-Dichloroethene	90.7	0.252	359	1.00	07/24/19	KCA	5
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	07/24/19	KCA	5
Cyclohexane	ND	1.45	ND	4.99	07/24/19	KCA	5
Dibromochloromethane	ND	0.587	ND	5.00	07/24/19	KCA	5
Dichlorodifluoromethane	ND	1.01	ND	4.99	07/24/19	KCA	5
Ethanol	4.50	2.66	8.47	5.01	07/24/19	KCA	5
Ethyl acetate	ND	1.39	ND	5.01	07/24/19	KCA	5
Ethylbenzene	ND	1.15	ND	4.99	07/24/19	KCA	5
Heptane	ND	1.22	ND	5.00	07/24/19	KCA	5
Hexachlorobutadiene	ND	0.469	ND	5.00	07/24/19	KCA	5
Hexane	ND	1.42	ND	5.00	07/24/19	KCA	5
Isopropylalcohol	46.7	2.04	115	5.01	07/24/19	KCA	5
Isopropylbenzene	ND	1.02	ND	5.01	07/24/19	KCA	5
m,p-Xylene	ND	1.15	ND	4.99	07/24/19	KCA	5
Methyl Ethyl Ketone	1.86	1.70	5.48	5.01	07/24/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	07/24/19	KCA	5
Methylene Chloride	ND	4.32	ND	15.0	07/24/19	KCA	5
n-Butylbenzene	ND	0.911	ND	5.00	07/24/19	KCA	5
o-Xylene	ND	1.15	ND	4.99	07/24/19	KCA	5
Propylene	ND	2.91	ND	5.01	07/24/19	KCA	5
sec-Butylbenzene	ND	0.911	ND	5.00	07/24/19	KCA	5
Styrene	ND	1.17	ND	4.98	07/24/19	KCA	5
Tetrachloroethene	2100	3.32	14200	22.5	07/25/19	KCA	90
Tetrahydrofuran	2.73	1.70	8.05	5.01	07/24/19	KCA	5
Toluene	ND	1.33	ND	5.01	07/24/19	KCA	5
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	07/24/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	07/24/19	KCA	5
Trichloroethene	159	0.186	854	1.00	07/24/19	KCA	5
Trichlorofluoromethane	ND	0.891	ND	5.00	07/24/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	ND	5.00	07/24/19	KCA	5
Vinyl Chloride	ND	0.391	ND	1.00	07/24/19	KCA	5
<b><u>QA/QC Surrogates/Internals</u></b>							
% Bromofluorobenzene (5x)	107	%	107	%	07/24/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	73	%	73	%	07/24/19	KCA	5
% IS-Bromochloromethane (5x)	84	%	84	%	07/24/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	07/24/19	KCA	5
% Bromofluorobenzene (90x)	103	%	103	%	07/25/19	KCA	90
% IS-1,4-Difluorobenzene (90x)	113	%	113	%	07/25/19	KCA	90
% IS-Bromochloromethane (90x)	119	%	119	%	07/25/19	KCA	90
% IS-Chlorobenzene-d5 (90x)	98	%	98	%	07/25/19	KCA	90

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
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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.

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Phyllis Shiller, Laboratory Director

July 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



## Environmental Laboratories, Inc.

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

### QA/QC Report

July 26, 2019

#### QA/QC Data

SDG I.D.: GCD62844

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 489229 (ppbv), QC Sample No: CD61214 (CD62845 (5X) )												
<u>Volatiles</u>												
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	98	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	95	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	82	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	112	3.77	3.90	0.768	0.793	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	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	92	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	111	1.16	1.13	0.237	0.231	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	80	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	111	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	105	2.23	2.26	0.454	0.461	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	109	1.60	1.61	0.292	0.293	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	85	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	73	61.7	54.6	26.0	23.0	12.2	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	96	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	102	0.72	0.65	0.115	0.104	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	103	6.15	5.81	1.26	1.19	5.7	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	79	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	101	1.62	1.43	0.328	0.290	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	96	81.0 E	73.1	43.0 E	38.8	10.3	70 - 130	25

## QA/QC Data

SDG I.D.: GCD62844

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	90	2.02	1.88	0.562	0.522	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	104	3.50	3.55	0.806	0.819	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	85	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	79	3.73	3.37	1.52	1.37	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	115	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	110	12.8	12.9	2.94	2.98	1.4	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	80	7.60	8.02	2.58	2.72	5.3	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	87	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	103	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	117	4.14	4.10	0.953	0.944	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	111	1.32	1.27	0.309	0.299	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	88	68.1	61.3	23.1	20.8	10.5	70 - 130	25
Toluene	ND	0.270	ND	1.02	110	4.56	4.56	1.21	1.21	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	92	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	108	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	91	1.85	1.44	0.330	0.256	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	85	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	93	%	93	%	99	94	91	94	91	NC	70 - 130	25
% IS-1,4-Difluorobenzene	113	%	113	%	80	91	101	91	101	NC	60 - 140	25
% IS-Bromochloromethane	118	%	118	%	73	92	101	92	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	109	%	109	%	81	73	77	73	77	NC	60 - 140	25

QA/QC Batch 489404 (ppbv), QC Sample No: CD62846 (CD62844, CD62845 (90X) )

### Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	98	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	94	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	95	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	80	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	110	2.50	2.52	0.509	0.513	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	91	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	82	1.15	1.09	0.518	0.491	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	97	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	110	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	102	1.98	2.00	0.404	0.407	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	88	ND	ND	ND	ND	NC	70 - 130	25

## QA/QC Data

SDG I.D.: GCD62844

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
Acetone	ND	0.420	ND	1.00	75	17.8	17.0	7.50	7.17	4.5	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	93	5.04	5.08	1.58	1.59	0.6	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	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	91	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	100	0.40	0.45	0.063	0.071	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	91	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	81	1.28	1.17	0.619	0.568	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	97	1.73	1.71	0.351	0.347	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	97	237 E	235	126 E	125	0.8	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	101	1.95	1.93	0.449	0.445	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	88	1.68	1.65	0.411	0.404	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	108	1.65	1.67	0.467	0.475	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	80	12.9	12.6	5.24	5.12	2.3	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	112	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	107	7.07	6.94	1.63	1.60	1.9	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	87	1.99	1.76	0.674	0.596	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	96	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	101	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	114	2.23	2.24	0.514	0.516	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	97	8.60	8.57	5.00	4.98	0.4	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	109	3.06	3.06	0.718	0.719	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	104	1.48	1.36	0.219	0.201	8.6	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	109	15.6	15.4	4.15	4.09	1.5	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	92	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	107	0.49	0.48	0.091	0.090	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	89	1.10	1.04	0.196	0.185	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	87	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	91	%	91	%	100	99	97	99	97	NC	70 - 130	25
% IS-1,4-Difluorobenzene	113	%	113	%	83	94	98	94	98	NC	60 - 140	25
% IS-Bromochloromethane	117	%	117	%	75	92	94	92	94	NC	60 - 140	25
% IS-Chlorobenzene-d5	109	%	109	%	85	98	102	98	102	NC	60 - 140	25

## QA/QC Data

SDG I.D.: GCD62844

Parameter	Blk ppbv	Blk ppbv	Blk ug/m3	Blk ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director  
July 26, 2019

Friday, July 26, 2019

Criteria: None

State: NY

## Sample Criteria Exceedances Report

GCD62844 - 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 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

July 26, 2019

SDG I.D.: GCD62844

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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.

