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

Via email to 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^3]) continue to indicate significant mass extraction.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800	ft^3/m
Compound	**Annual Mass Emission Limit (lbs/year)**	**Carbon Exchange Required Indicator Concentration ($\mu g/m^3$)[2]**	**July 2019 Effluent Concentration ($\mu g/m^3$)**
Trichloroethene	500	19,000	0.74
Tetrachloroethene	1,000	38,000	49.2
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene[1]	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 M. J. Stark

Alexandra Stark, P.E.

Attachments

Copies:	A. Tamuno, Esq., NYSDEC	*Via email to amtamuno@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*
	R. Putnam, NCDOH	*Via email to rputnam@nassaucountyny.gov*
	J. Vasquez, U.S. EPA	*Via email to vazquez.julio@epa.gov*
	T. Pupilla, Sanders Equities	*Via email to tpupilla@sandersequities.com*
	K. Maldonado, Esq.	*Via email to kevinmaldonado64@yahoo.com*
	J. Privitera, Esq.	*Via email to privitera@mltw.com*
	P. Coop, EnSafe	*Via email to pcoop@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: 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		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	39	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	3600	79	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3800	83		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5200	113	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3700	81		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2700	59	

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		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	3500	76	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3800	83		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2700	59	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5200	113	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2700	59	

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		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	0.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81	1.1
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3500	76	5.4	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	12.8
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	28	3700	81	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	1.8

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		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	38	3500	76		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2700	59	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	30	4100	89		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5200	113	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	3700	81		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2600	57	

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

Alarm Date	Site Visit Date	Personnel	ALARM DESCRIPTION	Corrective Action	SVE Status Upon Departure	AS Status Upon Departure
7/9/2019	7/10/2019	JW	AS Compressor Thermal Overload	Reset thermal, restarted.	ON	ON
	7/25/2019	JW	AS Compressor Thermal Overload	Reset thermal, restarted.	ON	ON

Appendix B

SVE System Influent/Effluent Sampling (TO-15)

Laboratory Analytical Results

PHOENIX
Environmental Laboratories, Inc.

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,

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

July 26, 2019

SDG I.D.: GCD62844

Project ID: ENSAFE-WESTBURY

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	07/19/19	9:46
Location Code:	ENVIROTR	Received by:	SW	07/23/19	15:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	811				

Laboratory Data

SDG ID: GCD62844
Phoenix ID: CD62844

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	*0.146*	ND	*1.00*	07/25/19	KCA	1	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	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	07/25/19	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	07/25/19	KCA	1	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	

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CD62844

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	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	07/25/19	KCA	1	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	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	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	07/25/19	KCA	1	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	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	
QA/QC Surrogates/Internals								
% 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	

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Phoenix I.D.: CD62844

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded 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

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

July 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	JW	07/19/19	9:51
Location Code:	ENVIROTR	Received by:	SW	07/23/19	15:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	770				

Laboratory Data

SDG ID: GCD62844
Phoenix ID: CD62845

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	*0.729*	ND	*5.00*	07/24/19	KCA	5	1
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	1
4-Ethyltoluene	ND	*1.02*	ND	*5.01*	07/24/19	KCA	5	1
4-Isopropyltoluene	ND	*0.911*	ND	*5.00*	07/24/19	KCA	5	1
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	

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CD62845

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	1
Ethyl acetate	ND	*1.39*	ND	*5.01*	07/24/19	KCA	5	1
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	1
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	1
sec-Butylbenzene	ND	*0.911*	ND	*5.00*	07/24/19	KCA	5	1
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	1
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	
QA/QC Surrogates/Internals								
% 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	

Ver 1

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Phoenix I.D.: CD62845

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

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

July 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

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))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	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 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

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.

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

July 26, 2019 SDG I.D.: GCD62844

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

PHOENIX
Environmental Laboratories, Inc.
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CHAIN OF CUSTODY RECORD
AIR ANALYSES
800-827-5426
email: greg@phoenixlabs.com

P.O. # Page 1 of 1

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

Report to: James Wilkinson
Customer: EnviroTrac
Address: 5 Old Dock Road
Yaphank, NY 11980

Invoice to: EnviroTrac

Sampled by: Jim Wilkinson

Project Name: Exxon - Westbury

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

State where samples collected: NY

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)	MATRIX: Ambient/Indoor Air	MATRIX: Soil Gas	MATRIX: Grab (G) Composite (C)	ANALYSES: TO-14	ANALYSES: TO-15
		THIS SECTION FOR LAB USE ONLY															
L02844	SVE Effluent	811	1.4	-30		NA	NA	9:45	9:46	7/19					G		✓
L02845	SVE Influent	770	↓	↓		↓	↓	9:50	9:51	↓					G		✓

Relinquished by:	Accepted by:	Date:	Time:
		7-23-19	10:10
	Krystal Hall	7-23-19	15:02

Data Format:
Excel ☑ Equis ☐ Other ☑ (pdf)

Turnaround Time:
☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☑ Standard

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
1.4L grab

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: