

June 10, 2020

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

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

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

Dear Ms. Maloney:

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

Air Sparge/Soil Vapor Extraction System – Operable Unit 1

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). Two alarm calls were received in May 2020 due to high temperature at the compressor; these alarms were rectified by adding oil and restarting the system.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on May 21, 2020, using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in Appendix B.
 - Photoionization detector readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [41,073 µg/m³]) continue to indicate significant mass extraction.
 - Effluent concentrations are below the carbon exchange indicator concentrations, as shown below.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800 ft ³ /min	
Compound	Annual Mass Emission Limit ¹ (lbs/year)	Carbon Exchange Required Indicator Concentration (µg/m ³) ²	May 2020 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	2.8
Tetrachloroethene	1,000	38,000	7.8
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	618

Notes:

ft/min cubic feet per minute

lbs/year pounds per year

µg/m³ micrograms per cubic meter

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

2 These limits were calculated based on Frost Street-specific system operations (i.e., flow rate) in order to remain below the annual HTAC emissions listed in Part 212-2.2 Table 2. Remaining below these concentrations ensures that annual emissions will not exceed the limit which demonstrates compliance with Part 212 without having to perform compound-specific analyses.

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

Groundwater Extraction System – Operable Unit 2

The pumps in EX-1A, EX-1B, EX-1C, and EX-1D operated near design flow rates (30, 30, 48, and 48 gallons per minute, respectively) for all of May.

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

Groundwater Monitoring

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

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

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

Attachments

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

Appendix A
AS/SVE System Operation and Maintenance Logs

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

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

Date: 1-May
Weather / Temp: Cloudy / 50 DEG
Technician / Operator: JW

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

System Status					
	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	ON	ON	Sensaphone (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	OFF	OFF	Surge Protection (ON/OFF)	ON	ON
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White
AS Compressor 2 (ON/OFF)	OFF	OFF			
Soil Vapor Extraction System					
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4400	864	Blower 1 Total Runtime (hrs)	58,911.0	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	56,566.9	
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0	
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0	
VGAC-1 Influent Vacuum ("H2O)	80		VGAC-1 Influent PID (ppm)	2.0	
VGAC-1 Effluent Vacuum ("H2O)	72		VGAC-1 Effluent PID (ppm)	1.0	
VGAC-2 Influent Vacuum ("H2O)	65		VGAC-2 Influent PID (ppm)	2.0	
VGAC-2 Effluent Vacuum ("H2O)	70		VGAC-2 Effluent PID (ppm)	1.0	
VGAC-3 Influent Pressure ("H2O)	20		VGAC-3 Influent PID (ppm)	1.0	
VGAC-3 Effluent Pressure ("H2O)	2		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	140		Blower Effluent PID (ppm)	1.0	
Blower Effluent Pressure ("H2O)	20				
Transfer Pump Total Runtime (hrs)	25,040.9		Condensate Storage Tank Level (gal)	0	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	54	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	55	5000	109		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	48	5400	118		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	48	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	39,023
Manifold Regulator Pressure (psi)					
AS Manifold Legs - Pressure/Flow Rate					
	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)			AS-11 (psi)/(cfm)		
AS-2 (psi)/(cfm)			AS-12B (psi)/(cfm)		
AS-3 (psi)/(cfm)			AS-13B (psi)/(cfm)		
AS-4 (psi)/(cfm)			AS-14 (psi)/(cfm)		
AS-5 (psi)/(cfm)			AS-15 (psi)/(cfm)		
AS-6 (psi)/(cfm)			AS-16B (psi)/(cfm)		
AS-7 (psi)/(cfm)			AS-17 (psi)/(cfm)		
AS-8 (psi)/(cfm)			AS-18 (psi)/(cfm)		
AS-9 (psi)/(cfm)			AS-19 (psi)/(cfm)		
AS-10B (psi)/(cfm)					

Notes, Comments & Observations: _____

Compressor off upon arrival due to high temp alarm, need to change filters and add oil before restarting.

Inspection, Maintenance, Lubrication Schedule
 Ensaf-Frost Street
 101 Frost Street
 Westbury, NY

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

Date: 1-May
Weather / Temp: Cloudy / 50 DEG
Technician / Operator: JW

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

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	N	Off for repairs.
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	Need more oil.
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

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

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

Date: 12-May
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 8:00
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)	4400		864		Blower 1 Total Runtime (hrs)	59,043.2			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	56,566.9			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	4				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	80				VGAC-1 Influent PID (ppm)	2.7			
VGAC-1 Effluent Vacuum ("H2O)	72				VGAC-1 Effluent PID (ppm)	1.1			
VGAC-2 Influent Vacuum ("H2O)	65				VGAC-2 Influent PID (ppm)	2.7			
VGAC-2 Effluent Vacuum ("H2O)	70				VGAC-2 Effluent PID (ppm)	1.1			
VGAC-3 Influent Pressure ("H2O)	20				VGAC-3 Influent PID (ppm)	1.1			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	140				Blower Effluent PID (ppm)	1.1			
Blower Effluent Pressure ("H2O)	20								
Transfer Pump Total Runtime (hrs)	25,041.0				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)	52	8000	175		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4800	105	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	5000	109		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	45	3200	70	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	5500	120		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6700	146	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	45	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3300	72	
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)	170			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	39,023			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	20		6		AS-11 (psi)/(cfm)	19		9	
AS-2 (psi)/(cfm)	19		4		AS-12B (psi)/(cfm)	20		7	
AS-3 (psi)/(cfm)	18		10		AS-13B (psi)/(cfm)	18		7	
AS-4 (psi)/(cfm)	15		4		AS-14 (psi)/(cfm)	18		10	
AS-5 (psi)/(cfm)	20		10		AS-15 (psi)/(cfm)	20		9	
AS-6 (psi)/(cfm)	20		8		AS-16B (psi)/(cfm)	18		7	
AS-7 (psi)/(cfm)	20		8		AS-17 (psi)/(cfm)	18		5	
AS-8 (psi)/(cfm)	18		9		AS-18 (psi)/(cfm)	18		8	
AS-9 (psi)/(cfm)	19		9		AS-19 (psi)/(cfm)	20		10	
AS-10B (psi)/(cfm)	18		8						

Notes, Comments & Observations:

Completed semi-annual Hydrovane maintenance.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

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

Date: 12-May
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 8:00
Departure Time: 10:00

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	N	Off for repairs.
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	Y	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

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

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

Date: 21-May
 Weather / Temp: Clear / 50 DEG
 Technician / Operator: JW

Arrival Time: 9:00
 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)	4500	884	Blower 1 Total Runtime (hrs)	59,151.2					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	56,650.8					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	80		VGAC-1 Effluent PID (ppm)	8.2					
VGAC-1 Effluent Vacuum ("H2O)	72		VGAC-2 Influent PID (ppm)	1.4					
VGAC-2 Influent Vacuum ("H2O)	65		VGAC-2 Effluent PID (ppm)	8.2					
VGAC-2 Effluent Vacuum ("H2O)	70		VGAC-3 Influent PID (ppm)	1.4					
VGAC-3 Influent Pressure ("H2O)	20		VGAC-3 Effluent PID (ppm)	1.4					
VGAC-3 Effluent Pressure ("H2O)	2		Blower Effluent PID (ppm)	0.0					
VGAC-3 Influent Temp (DegF)	142			1.4					
Blower Effluent Pressure ("H2O)	20								
Transfer Pump Total Runtime (hrs)	25,041.0		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)	52	7800	170	9.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4800	105	2.1
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	5000	109	15.9	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3400	74	2.6
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	45	5500	120	5.4	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6800	148	34.6
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4800	105	2.9	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3400	74	7.5
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)	170				
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	39,207				
Manifold Regulator Pressure (psi)	68								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	18	10	AS-11 (psi)/(cfm)	16	4				
AS-2 (psi)/(cfm)	16	7	AS-12B (psi)/(cfm)	17	10				
AS-3 (psi)/(cfm)	16	7	AS-13B (psi)/(cfm)	16	10				
AS-4 (psi)/(cfm)	15	4	AS-14 (psi)/(cfm)	17	10				
AS-5 (psi)/(cfm)	17	7	AS-15 (psi)/(cfm)	16	10				
AS-6 (psi)/(cfm)	17	10	AS-16B (psi)/(cfm)	15	10				
AS-7 (psi)/(cfm)	18	5	AS-17 (psi)/(cfm)	17	7				
AS-8 (psi)/(cfm)	15	10	AS-18 (psi)/(cfm)	17	8				
AS-9 (psi)/(cfm)	16	7	AS-19 (psi)/(cfm)	16	5				
AS-10B (psi)/(cfm)	16	10							

Notes, Comments & Observations:

Collected monthly samples.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

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

Date: 21-May
Weather / Temp: Clear / 50 DEG
Technician / Operator: JW

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

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	N	Off for repairs.
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

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

Date: 26-May
Weather / Temp: Clear / 70 DEG
Technician / Operator: JW

Arrival Time: 9:00
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)	4800		942		Blower 1 Total Runtime (hrs)	59,215.9			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	56,710.8			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	2.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	58				VGAC-1 Effluent PID (ppm)	6.0			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	1.1			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Influent PID (ppm)	6.0			
VGAC-2 Effluent Vacuum ("H2O)	64				VGAC-2 Effluent PID (ppm)	1.1			
VGAC-3 Influent Vacuum ("H2O)	70				VGAC-3 Influent PID (ppm)	1.1			
VGAC-3 Effluent Vacuum ("H2O)	75				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)	25,041.0				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	6000	131		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4200	92		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	30	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	85			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	172			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	39,277			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	18	10			AS-11 (psi)/(cfm)	16	5		
AS-2 (psi)/(cfm)	16	8			AS-12B (psi)/(cfm)	17	10		
AS-3 (psi)/(cfm)	16	7			AS-13B (psi)/(cfm)	16	10		
AS-4 (psi)/(cfm)	15	4			AS-14 (psi)/(cfm)	16	10		
AS-5 (psi)/(cfm)	16	5			AS-15 (psi)/(cfm)	16	10		
AS-6 (psi)/(cfm)	17	10			AS-16B (psi)/(cfm)	15	10		
AS-7 (psi)/(cfm)	18	5			AS-17 (psi)/(cfm)	17	6		
AS-8 (psi)/(cfm)	15	10			AS-18 (psi)/(cfm)	15	8		
AS-9 (psi)/(cfm)	15	7			AS-19 (psi)/(cfm)	15	5		
AS-10B (psi)/(cfm)	15	10							

Notes, Comments & Observations:

Moved GAC-3 to vacuum side of blower.

Added oil to Hydrovane, restarted.

Inspection, Maintenance, Lubrication Schedule
Ensafe-Frost Street
101 Frost Street
Westbury, NY

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

Date: 26-May
Weather / Temp: Clear / 70 DEG
Technician / Operator: JW

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

Maintenance Item	Perform	Completed (yes/no)	Comments
SVE Blower B-1			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Blower B-2			
-Inspect	Weekly	Y	
-Lubricate	As Required	N	
-Inspect Air Filter	Weekly	Y	
-Amp Draw	Quarterly	N	
-Inspect Belts	Weekly	Y	
SVE Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
Phase Separator/Storage Tank			
-Inspect	Weekly	Y	
-Check Level Switches	As Required	Y	
-Inspect water storage tank	Weekly	Y	
-Pump water to sewer drain	As Required	Y	
AS Compressor 1			
-Inspect	Weekly	N	Off for repairs.
-Lubricate	As Required	N	
-Inspect Filters	Weekly	N	
-Amp Draw	Quarterly	N	
AS Compressor 2			
-Inspect	Weekly	Y	
-Lubricate	As Required	Y	Added oil.
-Inspect Filters	Weekly	Y	
-Amp Draw	Quarterly	N	
AS Piping			
-Inspect	Weekly	Y	
-Valves	Weekly	Y	
-Drain Filters/Collectors	Weekly	Y	
-Drain Pressure Tank	Weekly	Y	

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

[illegible]

Appendix B
AS/SVE System Influent/Effluent Sampling
Laboratory Analytical Results



Friday, May 29, 2020

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

Project ID: ENSAFE WESTBURY
SDG ID: GCG02995
Sample ID#s: CG02995 - CG02996

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

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

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

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



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



Sample Id Cross Reference

May 29, 2020

SDG I.D.: GCG02995

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Matrix
SVE EFFLUENT	CG02995	AIR
SVE INFLUENT	CG02996	AIR



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



Analysis Report

May 29, 2020

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 755

Custody Information

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

Date

05/21/20
05/28/20

Time

9:11
16:34

Laboratory Data

SDG ID: GCG02995
Phoenix ID: CG02995

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	05/29/20	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	05/29/20	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	05/29/20	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	05/29/20	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	05/29/20	KCA	1
1,1-Dichloroethene	0.140	0.051	0.55	0.20	05/29/20	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	05/29/20	KCA	1
1,2,4-Trimethylbenzene	0.328	0.204	1.61	1.00	05/29/20	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	05/29/20	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	05/29/20	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	05/29/20	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	05/29/20	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	05/29/20	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	05/29/20	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	05/29/20	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	05/29/20	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	05/29/20	KCA	1
1,4-Dioxane	1.55	0.278	5.58	1.00	05/29/20	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	05/29/20	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	05/29/20	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	05/29/20	KCA	1
4-Methyl-2-pentanone(MIBK)	0.573	0.244	2.35	1.00	05/29/20	KCA	1
Acetone	5.31	0.421	12.6	1.00	05/29/20	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	05/29/20	KCA	1
Benzene	ND	0.313	ND	1.00	05/29/20	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	05/29/20	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	05/29/20	KCA	1	
Bromoform	ND	0.097	ND	1.00	05/29/20	KCA	1	
Bromomethane	ND	0.258	ND	1.00	05/29/20	KCA	1	
Carbon Disulfide	ND	0.321	ND	1.00	05/29/20	KCA	1	
Carbon Tetrachloride	ND	0.032	ND	0.20	05/29/20	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	05/29/20	KCA	1	
Chloroethane	ND	0.379	ND	1.00	05/29/20	KCA	1	
Chloroform	ND	0.205	ND	1.00	05/29/20	KCA	1	
Chloromethane	ND	0.485	ND	1.00	05/29/20	KCA	1	
Cis-1,2-Dichloroethene	156	0.252	618	1.00	05/28/20	KCA	5	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	05/29/20	KCA	1	
Cyclohexane	ND	0.291	ND	1.00	05/29/20	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	05/29/20	KCA	1	
Dichlorodifluoromethane	0.325	0.202	1.61	1.00	05/29/20	KCA	1	
Ethanol	13.2	0.531	24.9	1.00	05/29/20	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	05/29/20	KCA	1	1
Ethylbenzene	ND	0.230	ND	1.00	05/29/20	KCA	1	
Heptane	ND	0.244	ND	1.00	05/29/20	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	05/29/20	KCA	1	
Hexane	ND	0.284	ND	1.00	05/29/20	KCA	1	
Isopropylalcohol	1.70	0.407	4.18	1.00	05/29/20	KCA	1	
Isopropylbenzene	0.218	0.204	1.07	1.00	05/29/20	KCA	1	
m,p-Xylene	0.271	0.230	1.18	1.00	05/29/20	KCA	1	
Methyl Ethyl Ketone	2.11	0.339	6.22	1.00	05/29/20	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	05/29/20	KCA	1	
Methylene Chloride	ND	0.864	ND	3.00	05/29/20	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	05/29/20	KCA	1	1
o-Xylene	ND	0.230	ND	1.00	05/29/20	KCA	1	
Propylene	0.610	0.581	1.05	1.00	05/29/20	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	05/29/20	KCA	1	1
Styrene	ND	0.235	ND	1.00	05/29/20	KCA	1	
Tetrachloroethene	1.15	0.037	7.80	0.25	05/29/20	KCA	1	
Tetrahydrofuran	ND	0.339	ND	1.00	05/29/20	KCA	1	1
Toluene	ND	0.266	ND	1.00	05/29/20	KCA	1	
Trans-1,2-Dichloroethene	1.98	0.252	7.85	1.00	05/29/20	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	05/29/20	KCA	1	
Trichloroethene	0.521	0.037	2.80	0.20	05/29/20	KCA	1	
Trichlorofluoromethane	0.442	0.178	2.48	1.00	05/29/20	KCA	1	
Trichlorotrifluoroethane	ND	0.131	ND	1.00	05/29/20	KCA	1	
Vinyl Chloride	ND	0.078	ND	0.20	05/29/20	KCA	1	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	99	%	99	%	05/29/20	KCA	1	
% IS-1,4-Difluorobenzene	96	%	96	%	05/29/20	KCA	1	
% IS-Bromochloromethane	92	%	92	%	05/29/20	KCA	1	
% IS-Chlorobenzene-d5	99	%	99	%	05/29/20	KCA	1	
% Bromofluorobenzene (5x)	99	%	99	%	05/28/20	KCA	5	
% IS-1,4-Difluorobenzene (5x)	92	%	92	%	05/28/20	KCA	5	
% IS-Bromochloromethane (5x)	92	%	92	%	05/28/20	KCA	5	
% IS-Chlorobenzene-d5 (5x)	94	%	94	%	05/28/20	KCA	5	

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

May 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

May 29, 2020

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: Standard
P.O.#:
Canister Id: 720

Custody Information

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

Date

05/21/20 9:16
05/28/20 16:34

Time

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCG02995
Phoenix ID: CG02996

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.729	ND	5.00	05/28/20	KCA	5
1,1,1-Trichloroethane	ND	0.917	ND	5.00	05/28/20	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	05/28/20	KCA	5
1,1,2-Trichloroethane	ND	0.917	ND	5.00	05/28/20	KCA	5
1,1-Dichloroethane	ND	1.24	ND	5.02	05/28/20	KCA	5
1,1-Dichloroethene	ND	0.252	ND	1.00	05/28/20	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	05/28/20	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	05/28/20	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	05/28/20	KCA	5
1,2-Dichlorobenzene	ND	0.832	ND	5.00	05/28/20	KCA	5
1,2-Dichloroethane	ND	1.24	ND	5.02	05/28/20	KCA	5
1,2-dichloropropane	ND	1.08	ND	4.99	05/28/20	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	05/28/20	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	05/28/20	KCA	5
1,3-Butadiene	ND	2.26	ND	5.00	05/28/20	KCA	5
1,3-Dichlorobenzene	ND	0.832	ND	5.00	05/28/20	KCA	5
1,4-Dichlorobenzene	ND	0.832	ND	5.00	05/28/20	KCA	5
1,4-Dioxane	ND	1.39	ND	5.01	05/28/20	KCA	5
2-Hexanone(MBK)	ND	1.22	ND	4.99	05/28/20	KCA	5
4-Ethyltoluene	ND	1.02	ND	5.01	05/28/20	KCA	5
4-Isopropyltoluene	ND	0.911	ND	5.00	05/28/20	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	05/28/20	KCA	5
Acetone	4.50	2.11	10.7	5.01	05/28/20	KCA	5
Acrylonitrile	ND	2.31	ND	5.01	05/28/20	KCA	5
Benzene	ND	1.57	ND	5.01	05/28/20	KCA	5
Benzyl chloride	ND	0.966	ND	5.00	05/28/20	KCA	5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	05/28/20	KCA	5	
Bromoform	ND	0.484	ND	5.00	05/28/20	KCA	5	
Bromomethane	ND	1.29	ND	5.01	05/28/20	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	05/28/20	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	05/28/20	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	05/28/20	KCA	5	
Chloroethane	ND	1.90	ND	5.01	05/28/20	KCA	5	
Chloroform	ND	1.02	ND	4.98	05/28/20	KCA	5	
Chloromethane	ND	2.42	ND	4.99	05/28/20	KCA	5	
Cis-1,2-Dichloroethene	180	0.252	713	1.00	05/28/20	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	05/28/20	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	05/28/20	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	05/28/20	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	05/28/20	KCA	5	
Ethanol	10.3	2.66	19.4	5.01	05/28/20	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	05/28/20	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	05/28/20	KCA	5	
Heptane	ND	1.22	ND	5.00	05/28/20	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	05/28/20	KCA	5	
Hexane	ND	1.42	ND	5.00	05/28/20	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	05/28/20	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	05/28/20	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	05/28/20	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	05/28/20	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	05/28/20	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	05/28/20	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	05/28/20	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	05/28/20	KCA	5	
Propylene	ND	2.91	ND	5.01	05/28/20	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	05/28/20	KCA	5	1
Styrene	ND	1.17	ND	4.98	05/28/20	KCA	5	
Tetrachloroethene	5730	5.53	38800	37.5	05/29/20	KCA	150	
Tetrahydrofuran	ND	1.70	ND	5.01	05/28/20	KCA	5	1
Toluene	ND	1.33	ND	5.01	05/28/20	KCA	5	
Trans-1,2-Dichloroethene	1.83	1.26	7.25	4.99	05/28/20	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	05/28/20	KCA	5	
Trichloroethene	291	5.59	1560	30.0	05/29/20	KCA	150	
Trichlorofluoromethane	ND	0.891	ND	5.00	05/28/20	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	05/28/20	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	05/28/20	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	101	%	101	%	05/28/20	KCA	5	
% IS-1,4-Difluorobenzene (5x)	86	%	86	%	05/28/20	KCA	5	
% IS-Bromochloromethane (5x)	92	%	92	%	05/28/20	KCA	5	
% IS-Chlorobenzene-d5 (5x)	91	%	91	%	05/28/20	KCA	5	
% Bromofluorobenzene (150x)	101	%	101	%	05/29/20	KCA	150	
% IS-1,4-Difluorobenzene (150x)	102	%	102	%	05/29/20	KCA	150	
% IS-Bromochloromethane (150x)	104	%	104	%	05/29/20	KCA	150	
% IS-Chlorobenzene-d5 (150x)	95	%	95	%	05/29/20	KCA	150	

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.

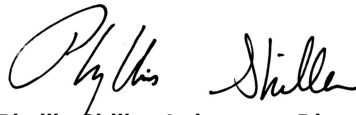
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

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:

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

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



Phyllis Shiller, Laboratory Director

May 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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



Canister Sampling Information

May 29, 2020

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

Location Code: ENVIOTR

SDG I.D.: GCG02995

Project ID: ENSAFE WESTBURY

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SVE EFFLUENT	CG02995	755	1.4L		05/13/20	-30	0		B SAM				05/21/20 9:10	05/21/20 9:11
SVE INFLUENT	CG02996	720	1.4L		05/13/20	-30	-4		B SAM				05/21/20 9:15	05/21/20 9:16



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

May 29, 2020

QA/QC Data

SDG I.D.: GCG02995

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 531557 (ppbv), QC Sample No: CG02320 (CG02995 (1X, 5X) , CG02996 (5X, 150X))												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.020	ND	0.11	106	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.150	ND	0.61	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.200	ND	0.79	102	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.054	ND	0.40	83	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.100	ND	0.60	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.020	ND	0.08	103	0.79	0.77	0.195	0.191	2.1	70 - 130	25
1,2-dichloropropane	ND	0.020	ND	0.09	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	92	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	103	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.500	ND	1.11	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.100	ND	0.60	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.080	ND	0.48	103	1.42	1.48	0.237	0.247	NC	70 - 130	25
1,4-Dioxane	ND	0.130	ND	0.47	112	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	103	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	103	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.500	ND	2.74	98	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.500	ND	2.05	105	5.73	5.77	1.40	1.41	NC	70 - 130	25
Acetone	ND	0.750	ND	1.78	86	89.5	91.2	37.7	38.4	1.8	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	98	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.200	ND	0.64	101	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.500	ND	2.59	110	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.020	ND	0.13	108	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.150	ND	1.55	115	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.140	ND	0.54	100	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.500	ND	1.56	103	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.086	ND	0.54	106	0.84	0.86	0.133	0.136	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	104	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	105	6.73	6.88	1.38	1.41	2.2	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	112	1.61	1.56	0.778	0.754	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	105	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	102	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.020	ND	0.17	111	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	91	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.750	ND	1.41	78	1750 E	1780	931 E	943	1.3	70 - 130	25

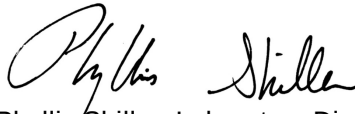
QA/QC Data

SDG I.D.: GCG02995

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	0.500	ND	1.80	110	10.2	10.2	2.84	2.84	0.0	70 - 130	25
Ethylbenzene	ND	0.500	ND	2.17	103	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.500	ND	2.05	98	2.17	2.22	0.530	0.543	NC	70 - 130	25
Hexachlorobutadiene	ND	0.020	ND	0.21	87	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.450	ND	1.59	104	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.750	ND	1.84	97	86.5	88.4	35.2	36.0	2.2	70 - 130	25
Isopropylbenzene	ND	0.500	ND	2.46	101	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	1.00	ND	4.34	107	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.450	ND	1.33	101	3.68	3.77	1.25	1.28	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.500	ND	1.80	102	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	3.00	ND	10.4	101	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.500	ND	2.74	98	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.500	ND	2.17	103	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.500	ND	0.86	99	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.500	ND	2.74	99	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.200	ND	0.85	103	3.88	3.91	0.911	0.918	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	106	1.39	1.12	0.205	0.165	NC	70 - 130	25
Tetrahydrofuran	ND	0.500	ND	1.47	99	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.500	ND	1.88	105	7.57	7.83	2.01	2.08	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	103	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.500	ND	2.27	107	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.050	ND	0.27	105	1.82	1.82	0.339	0.338	0.3	70 - 130	25
Trichlorofluoromethane	ND	0.500	ND	2.81	104	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.500	ND	3.83	104	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.100	ND	0.26	105	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	99	%	99	%	100	101	100	101	100	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	93	92	91	92	91	NC	60 - 140	25
% IS-Bromochloromethane	99	%	99	%	92	91	90	91	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	99	%	99	%	94	94	92	94	92	NC	60 - 140	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
 May 29, 2020

Friday, May 29, 2020

Criteria: None

State: NJ

Sample Criteria Exceedances Report

GCG02995 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

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



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Analysis Comments

May 29, 2020

SDG I.D.: GCG02995

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

