

May 11, 2020

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

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

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

Dear Ms. Maloney:

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

Air Sparge/Soil Vapor Extraction System – Operable Unit 1

- AS/SVE system operations continued this month, per the OM&M Manual. During periodic visits, system parameters were logged on dedicated forms (Appendix A). No alarm calls were received in April 2020.
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on April 24, 2020, using Summa canisters. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in Appendix B.
 - Photoionization detector readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene [4,528 µg/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	April 2020 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	2.93
Tetrachloroethene	1,000	38,000	1.81
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene ³	100	3,800	1.28

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

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

Groundwater Monitoring

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

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

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
 Ensae-Frost Street
 101 Frost Street
 Westbury, NY

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

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

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

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

Notes, Comments & Observations:

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

Repaired tubing and restarted compressor.

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

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

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

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

Maintenance Item	Perform	Completed (yes/no)	Comments
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	Add 1/2-Gallon of 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	

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 Ensae-Frost Street
 101 Frost Street
 Westbury, NY

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

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

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

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

Notes, Comments & Observations:

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

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

Maintenance Item	Perform	Completed (yes/no)	Comments
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: 24-Apr
 Weather / Temp: Rain / 50 DEG
 Technician / Operator: JW

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

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

Notes, Comments & Observations: _____

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

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101 Frost Street
Westbury, NY

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

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

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

Maintenance Item	Perform	Completed (yes/no)	Comments
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 1-gallon of 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	

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



Friday, May 01, 2020

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

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

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

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

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

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

Sincerely yours,

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

Phyllis Shiller

Laboratory Director

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

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



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



Sample Id Cross Reference

May 01, 2020

SDG I.D.: GCF79940

Project ID: ENSAFE-WESTBURY

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



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



Analysis Report

May 01, 2020

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

Sample Information

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

Custody Information

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

Date

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

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Laboratory Data

SDG ID: GCF79940
Phoenix ID: CF79940

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

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

Parameter	ppbv 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 01, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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



Analysis Report

May 01, 2020

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

Sample Information

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

Custody Information

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

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

Laboratory Data

SDG ID: GCF79940
Phoenix ID: CF79941

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

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	04/28/20	KCA	5	1
1,1,1-Trichloroethane	ND	0.917	ND	5.00	04/28/20	KCA	5	
1,1,2,2-Tetrachloroethane	ND	0.729	ND	5.00	04/28/20	KCA	5	
1,1,2-Trichloroethane	ND	0.917	ND	5.00	04/28/20	KCA	5	
1,1-Dichloroethane	ND	1.24	ND	5.02	04/28/20	KCA	5	
1,1-Dichloroethene	0.725	0.252	2.87	1.00	04/28/20	KCA	5	
1,2,4-Trichlorobenzene	ND	0.674	ND	5.00	04/28/20	KCA	5	
1,2,4-Trimethylbenzene	ND	1.02	ND	5.01	04/28/20	KCA	5	
1,2-Dibromoethane(EDB)	ND	0.651	ND	5.00	04/28/20	KCA	5	
1,2-Dichlorobenzene	ND	0.832	ND	5.00	04/28/20	KCA	5	
1,2-Dichloroethane	ND	1.24	ND	5.02	04/28/20	KCA	5	
1,2-dichloropropane	ND	1.08	ND	4.99	04/28/20	KCA	5	
1,2-Dichlorotetrafluoroethane	ND	0.716	ND	5.00	04/28/20	KCA	5	
1,3,5-Trimethylbenzene	ND	1.02	ND	5.01	04/28/20	KCA	5	
1,3-Butadiene	ND	2.26	ND	5.00	04/28/20	KCA	5	
1,3-Dichlorobenzene	ND	0.832	ND	5.00	04/28/20	KCA	5	
1,4-Dichlorobenzene	ND	0.832	ND	5.00	04/28/20	KCA	5	
1,4-Dioxane	ND	1.39	ND	5.01	04/28/20	KCA	5	
2-Hexanone(MBK)	ND	1.22	ND	4.99	04/28/20	KCA	5	1
4-Ethyltoluene	ND	1.02	ND	5.01	04/28/20	KCA	5	1
4-Isopropyltoluene	ND	0.911	ND	5.00	04/28/20	KCA	5	1
4-Methyl-2-pentanone(MIBK)	ND	1.22	ND	4.99	04/28/20	KCA	5	
Acetone	8.40	2.11	19.9	5.01	04/28/20	KCA	5	
Acrylonitrile	ND	2.31	ND	5.01	04/28/20	KCA	5	
Benzene	ND	1.57	ND	5.01	04/28/20	KCA	5	
Benzyl chloride	ND	0.966	ND	5.00	04/28/20	KCA	5	

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.747	ND	5.00	04/28/20	KCA	5	
Bromoform	ND	0.484	ND	5.00	04/28/20	KCA	5	
Bromomethane	ND	1.29	ND	5.01	04/28/20	KCA	5	
Carbon Disulfide	ND	1.61	ND	5.01	04/28/20	KCA	5	
Carbon Tetrachloride	ND	0.159	ND	1.00	04/28/20	KCA	5	
Chlorobenzene	ND	1.09	ND	5.01	04/28/20	KCA	5	
Chloroethane	ND	1.90	ND	5.01	04/28/20	KCA	5	
Chloroform	ND	1.02	ND	4.98	04/28/20	KCA	5	
Chloromethane	ND	2.42	ND	4.99	04/28/20	KCA	5	
Cis-1,2-Dichloroethene	24.4	0.252	96.7	1.00	04/28/20	KCA	5	
cis-1,3-Dichloropropene	ND	1.10	ND	4.99	04/28/20	KCA	5	
Cyclohexane	ND	1.45	ND	4.99	04/28/20	KCA	5	
Dibromochloromethane	ND	0.587	ND	5.00	04/28/20	KCA	5	
Dichlorodifluoromethane	ND	1.01	ND	4.99	04/28/20	KCA	5	
Ethanol	5.83	2.66	11.0	5.01	04/28/20	KCA	5	1
Ethyl acetate	ND	1.39	ND	5.01	04/28/20	KCA	5	1
Ethylbenzene	ND	1.15	ND	4.99	04/28/20	KCA	5	
Heptane	ND	1.22	ND	5.00	04/28/20	KCA	5	
Hexachlorobutadiene	ND	0.469	ND	5.00	04/28/20	KCA	5	
Hexane	ND	1.42	ND	5.00	04/28/20	KCA	5	
Isopropylalcohol	ND	2.04	ND	5.01	04/28/20	KCA	5	
Isopropylbenzene	ND	1.02	ND	5.01	04/28/20	KCA	5	
m,p-Xylene	ND	1.15	ND	4.99	04/28/20	KCA	5	
Methyl Ethyl Ketone	ND	1.70	ND	5.01	04/28/20	KCA	5	
Methyl tert-butyl ether(MTBE)	ND	1.39	ND	5.01	04/28/20	KCA	5	
Methylene Chloride	ND	4.32	ND	15.0	04/28/20	KCA	5	
n-Butylbenzene	ND	0.911	ND	5.00	04/28/20	KCA	5	1
o-Xylene	ND	1.15	ND	4.99	04/28/20	KCA	5	
Propylene	ND	2.91	ND	5.01	04/28/20	KCA	5	1
sec-Butylbenzene	ND	0.911	ND	5.00	04/28/20	KCA	5	1
Styrene	ND	1.17	ND	4.98	04/28/20	KCA	5	
Tetrachloroethene	632	2.77	4280	18.8	04/30/20	KCA	75	
Tetrahydrofuran	ND	1.70	ND	5.01	04/28/20	KCA	5	1
Toluene	ND	1.33	ND	5.01	04/28/20	KCA	5	
Trans-1,2-Dichloroethene	ND	1.26	ND	4.99	04/28/20	KCA	5	
trans-1,3-Dichloropropene	ND	1.10	ND	4.99	04/28/20	KCA	5	
Trichloroethene	28.2	0.186	151	1.00	04/28/20	KCA	5	
Trichlorofluoromethane	ND	0.891	ND	5.00	04/28/20	KCA	5	
Trichlorotrifluoroethane	ND	0.653	ND	5.00	04/28/20	KCA	5	
Vinyl Chloride	ND	0.391	ND	1.00	04/28/20	KCA	5	
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene (5x)	100	%	100	%	04/28/20	KCA	5	
% IS-1,4-Difluorobenzene (5x)	95	%	95	%	04/28/20	KCA	5	
% IS-Bromochloromethane (5x)	93	%	93	%	04/28/20	KCA	5	
% IS-Chlorobenzene-d5 (5x)	88	%	88	%	04/28/20	KCA	5	
% Bromofluorobenzene (75x)	98	%	98	%	04/30/20	KCA	75	
% IS-1,4-Difluorobenzene (75x)	112	%	112	%	04/30/20	KCA	75	
% IS-Bromochloromethane (75x)	111	%	111	%	04/30/20	KCA	75	
% IS-Chlorobenzene-d5 (75x)	104	%	104	%	04/30/20	KCA	75	

Parameter	ppbv 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 01, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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



Canister Sampling Information

May 01, 2020

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

Location Code: ENVIOTR

SDG I.D.: GCF79940

Project ID: ENSAFE-WESTBURY

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



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 01, 2020

QA/QC Data

SDG I.D.: GCF79940

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

QA/QC Data

SDG I.D.: GCF79940

Parameter	Blk 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	125	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	110	ND	ND	ND	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	108	6.24	6.12	2.54	2.49	2.0	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	108	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	115	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	110	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	106	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	105	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	107	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	112	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	117	1.47	1.43	0.262	0.255	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	117	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	97	%	97	%	102	98	97	98	97	NC	70 - 130	25
% IS-1,4-Difluorobenzene	101	%	101	%	99	97	102	97	102	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	99	99	101	99	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	100	98	102	98	102	NC	60 - 140	25

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

Volatiles

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

QA/QC Data

SDG I.D.: GCF79940

Parameter	Blk 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	77	91.4	91.4	38.5	38.5	0.0	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	6.93	6.80	2.17	2.13	1.9	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	87	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	93	0.40	0.41	0.064	0.065	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	93	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	77	1.16	1.16	0.561	0.563	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	99	0.42	ND	0.107	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	104	1.08	1.10	0.314	0.320	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	78	1.44	1.37	0.292	0.278	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	78	139 E	136	73.7 E	72.2	2.1	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	106	7.55	7.72	1.74	1.78	2.3	70 - 130	25
Heptane	ND	0.240	ND	0.98	100	4.22	4.38	1.03	1.07	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	103	2.14	2.15	0.608	0.609	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	84	ND	13.4	ND	5.45	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	112	ND	0.98	ND	0.200	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	112	31.3	32.1	7.21	7.40	2.6	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	88	5.84	5.60	1.98	1.90	4.1	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	88	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	113	10.9	11.1	2.51	2.55	1.6	70 - 130	25
Propylene	ND	0.580	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	106	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	103	8.81	9.02	1.30	1.33	2.3	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	104	28.7	29.3	7.63	7.77	1.8	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	93	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	106	3.56	3.57	0.663	0.664	0.2	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	83	1.02	1.02	0.181	0.181	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	96	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	96	%	96	%	101	101	103	101	103	NC	70 - 130	25
% IS-1,4-Difluorobenzene	115	%	115	%	126	118	117	118	117	NC	60 - 140	25
% IS-Bromochloromethane	116	%	116	%	124	114	116	114	116	NC	60 - 140	25
% IS-Chlorobenzene-d5	111	%	111	%	119	114	113	114	113	NC	60 - 140	25

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

QA/QC Data

SDG I.D.: GCF79940

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

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

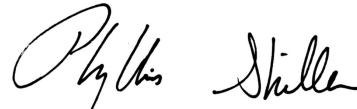
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
May 01, 2020

Friday, May 01, 2020

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCF79940 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL 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 01, 2020

SDG I.D.: GCF79940

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

