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

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

December 9, 2016

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

Re: Progress Report: November 2016
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe, Inc. is pleased to submit the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in November 2016.

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

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**).
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on November 18, 2016 using Summa canisters. An additional sample was collected between the lead and lag carbon vessels to monitor carbon usage. These samples were obtained by EnviroTrac, submitted to Phoenix Environmental Laboratories, and analyzed by Method TO-15. Results are included in **Appendix B**.
 - o Influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) continue to indicate significant mass extraction.
 - Photoionization detector readings between the lead and lag activated carbon media vessels and in the effluent air stream exhibited higher concentrations than the influent air stream, indicating breakthrough has occurred.
 - Effluent concentrations have exceeded the limits shown below; a carbon exchange has been scheduled on the earliest available date, December 20, 2016, for all units.

Frost Street Sites Effluent Compliance			
System Flow Rate =		800	ft ³ /m
Compound	Annual Mass Emission Limit (lbs/year)	Allowable Continuous Annual Concentration (µg/m ³)	November 2016 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	78,400
Tetrachloroethene	1,000	38,000	73,900
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	7,530

Notes:

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

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

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

Quarterly/Annual Groundwater Monitoring

- The fourth quarter 2016 ("annual/fifth quarter") groundwater sampling event is scheduled to be completed during the week of December 5, 2016.

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

Sincerely,

EnSafe, Inc., by

Alexandra M. J. Stark

Alexandra Stark, P.E.

Copies: A. Tamuno, Esq., NYSDEC

G. Bobersky, NYSDEC

J. Nealon, NYSDOH

J. DeFranco, NCDOH

T. Pupilla, Sanders Equities

K. Maldonado, Esq.

J. Privitera, Esq.

J. LaPoma, U.S. EPA

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C. Wise, EnSafe

J. Wilkinson, Envirotrac

Via email to amtamuno@gw.dec.state.ny.us

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Via email to lapoma.jennifer@epa.gov

Via email to jheaney@walden-associates.com

Via email to cwise@ensafe.com

Via email to jamesw@envirotrac.com

Appendix A

SVE/AS System O&M Logs

Operation & Maintenance Data Sheet

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: 2-Nov
Weather / Temp: Clear / 60 DEG
Technician / Operator: DW

Arrival Time: 10:30
Departure Time: 12:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	OFF		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	ON		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)	4800		942		Blower 1 Total Runtime (hrs)	44,347.3			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	45,089.6			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	68				VGAC-1 Influent PID (ppm)	7.1			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	54				VGAC-2 Influent PID (ppm)	7.1			
VGAC-2 Effluent Vacuum ("H2O)	56				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	44	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	38	4400	96	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	2750	60	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	98			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	216			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	18,213.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	14	8			AS-11 (psi)/(cfm)	14	4		
AS-2 (psi)/(cfm)	13	6			AS-12B (psi)/(cfm)	13	8		
AS-3 (psi)/(cfm)	14	6			AS-13B (psi)/(cfm)	13	8		
AS-4 (psi)/(cfm)	13	8			AS-14 (psi)/(cfm)	13	8		
AS-5 (psi)/(cfm)	14	8			AS-15 (psi)/(cfm)	14	8		
AS-6 (psi)/(cfm)	14	8			AS-16B (psi)/(cfm)	14	8		
AS-7 (psi)/(cfm)	14	8			AS-17 (psi)/(cfm)	14	8		
AS-8 (psi)/(cfm)	14	8			AS-18 (psi)/(cfm)	14	8		
AS-9 (psi)/(cfm)	14	8			AS-19 (psi)/(cfm)	14	4		
AS-10B (psi)/(cfm)	13	8							

Notes, Comments & Observations:

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

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

Date: 11-Nov
Weather / Temp: Clear / 60 DEG
Technician / Operator: DW

Arrival Time: 11:00
Departure Time: 12:30

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)	4800		942		Blower 1 Total Runtime (hrs)	44,455.1			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	45,197.0			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	68				VGAC-1 Influent PID (ppm)	4.6			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	54				VGAC-2 Influent PID (ppm)	4.6			
VGAC-2 Effluent Vacuum ("H2O)	56				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7.2								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	38	4400	96	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	2750	60	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	38	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	63			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	99			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	18,241.0			
Manifold Regulator Pressure (psi)	60								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	16	8			AS-11 (psi)/(cfm)	16	14		
AS-2 (psi)/(cfm)	16	8			AS-12B (psi)/(cfm)	16	8		
AS-3 (psi)/(cfm)	16	8			AS-13B (psi)/(cfm)	16	8		
AS-4 (psi)/(cfm)	16	8			AS-14 (psi)/(cfm)	16	4		
AS-5 (psi)/(cfm)	16	8			AS-15 (psi)/(cfm)	16	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	16	8		
AS-7 (psi)/(cfm)	16	8			AS-17 (psi)/(cfm)	16	4		
AS-8 (psi)/(cfm)	16	11			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	16	8			AS-19 (psi)/(cfm)	16	14		
AS-10B (psi)/(cfm)	16	4							

Notes, Comments & Observations:

Operation & Maintenance Data Sheet

Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services

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

Date: 18-Nov
Weather / Temp: Clear / 50 DEG
Technician / Operator: JW

Arrival Time: 9:30
Departure Time: 11:00

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		ON		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		OFF		Surge Protection (ON/OFF)	ON		ON	
AS Compressor 1 (ON/OFF)	OFF		OFF		Lightning Protection (White/Black)	White		White	
AS Compressor 2 (ON/OFF)	ON		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4800		942		Blower 1 Total Runtime (hrs)	44,544.4			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	45,276.3			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	56				VGAC-1 Influent PID (ppm)	6.4			
VGAC-1 Effluent Vacuum ("H2O)	62				VGAC-1 Effluent PID (ppm)	23.9			
VGAC-2 Influent Vacuum ("H2O)	56				VGAC-2 Influent PID (ppm)	6.4			
VGAC-2 Effluent Vacuum ("H2O)	62				VGAC-2 Effluent PID (ppm)	23.9			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	23.9			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153	7.4	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4000	87	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	48	4500	98	5.5	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2700	59	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	4900	107	0.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6000	131	24.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	41	2700	59	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	103			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	215			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	18,371.0			
Manifold Regulator Pressure (psi)	90								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	15	10			AS-11 (psi)/(cfm)	14.5	4		
AS-2 (psi)/(cfm)	13.5	6			AS-12B (psi)/(cfm)	13.5	9		
AS-3 (psi)/(cfm)	13	6			AS-13B (psi)/(cfm)	12.5	9		
AS-4 (psi)/(cfm)	12.5	8			AS-14 (psi)/(cfm)	13	9		
AS-5 (psi)/(cfm)	15	7			AS-15 (psi)/(cfm)	13.5	8		
AS-6 (psi)/(cfm)	16	10			AS-16B (psi)/(cfm)	12.5	8		
AS-7 (psi)/(cfm)	14	6			AS-17 (psi)/(cfm)	13.5	8		
AS-8 (psi)/(cfm)	14	10			AS-18 (psi)/(cfm)	13	8		
AS-9 (psi)/(cfm)	13.5	7			AS-19 (psi)/(cfm)	13.5	4		
AS-10B (psi)/(cfm)	12.5	10							

Notes, Comments & Observations:

Collected influent, midfluent, and effluent 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: 21-Nov
Weather / Temp: Clear / 36 DEG
Technician / Operator: DW

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)	4800		942		Blower 1 Total Runtime (hrs)	44,580.8			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	45,508.5			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3.5				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	68				VGAC-1 Influent PID (ppm)	4.9			
VGAC-1 Effluent Vacuum ("H2O)	60				VGAC-1 Effluent PID (ppm)	20.0			
VGAC-2 Influent Vacuum ("H2O)	54				VGAC-2 Influent PID (ppm)	4.9			
VGAC-2 Effluent Vacuum ("H2O)	56				VGAC-2 Effluent PID (ppm)	20.0			
VGAC-3 Influent Vacuum ("H2O)	64				VGAC-3 Influent PID (ppm)	20.0			
VGAC-3 Effluent Vacuum ("H2O)	69				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	7								
Transfer Pump Total Runtime (hrs)	25,022.6				Condensate Storage Tank Level (gal)	20			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	38	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	2750	60	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	38	4300	94		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	2900	63	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	69			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	112			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	18,373.0			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/(cfm)	16	6			AS-11 (psi)/(cfm)	16	10		
AS-2 (psi)/(cfm)	16	8			AS-12B (psi)/(cfm)	17	8		
AS-3 (psi)/(cfm)	16	8			AS-13B (psi)/(cfm)	16	8		
AS-4 (psi)/(cfm)	17	6			AS-14 (psi)/(cfm)	17	4		
AS-5 (psi)/(cfm)	17	8			AS-15 (psi)/(cfm)	17	8		
AS-6 (psi)/(cfm)	16	8			AS-16B (psi)/(cfm)	16	8		
AS-7 (psi)/(cfm)	16	8			AS-17 (psi)/(cfm)	16	6		
AS-8 (psi)/(cfm)	16	10			AS-18 (psi)/(cfm)	16	8		
AS-9 (psi)/(cfm)	16	8			AS-19 (psi)/(cfm)	16	10		
AS-10B (psi)/(cfm)	16	4							

Notes, Comments & Observations:

Turned off exhaust fan and plugged in heat trace.

Appendix B

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



Wednesday, November 30, 2016

Attn:
EnviroTrac
5 Old Dock Rd
Yaphank, NY 11980

Project ID: FROST STREET
Sample ID#s: BV88451 - BV88453

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

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

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

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

Sincerely yours,

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

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



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



Analysis Report

November 30, 2016

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 712

Custody Information

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

Date Time
11/18/16 10:01
11/21/16 15:04

Laboratory Data

SDG ID: GBV88451
Phoenix ID: BV88451

Project ID: FROST STREET
Client ID: 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	11/22/16	KCA	1
1,1,1-Trichloroethane	11.6	0.183	63.3	1.00	11/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	11/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	11/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	11/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	11/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	11/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	11/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	11/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	11/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	11/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	11/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
Acetone	1.57	S 0.421	3.73	1.00	11/22/16	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	11/22/16	KCA	1
Benzene	0.628	0.313	2.01	1.00	11/22/16	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	11/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution	
Bromodichloromethane	ND	0.149	ND	1.00	11/22/16	KCA	1	
Bromoform	ND	0.097	ND	1.00	11/22/16	KCA	1	
Bromomethane	ND	0.258	ND	1.00	11/22/16	KCA	1	
Carbon Disulfide	ND	0.321	ND	1.00	11/22/16	KCA	1	
Carbon Tetrachloride	0.277	0.040	1.74	0.25	11/22/16	KCA	1	
Chlorobenzene	ND	0.217	ND	1.00	11/22/16	KCA	1	
Chloroethane	ND	0.379	ND	1.00	11/22/16	KCA	1	
Chloroform	0.344	0.205	1.68	1.00	11/22/16	KCA	1	
Chloromethane	ND	0.485	ND	1.00	11/22/16	KCA	1	
Cis-1,2-Dichloroethene	1900	126	7530	499	11/23/16	KCA	500	
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1	
Cyclohexane	8.02	0.291	27.6	1.00	11/22/16	KCA	1	
Dibromochloromethane	ND	0.118	ND	1.00	11/22/16	KCA	1	
Dichlorodifluoromethane	0.611	0.202	3.02	1.00	11/22/16	KCA	1	
Ethanol	1.06	0.531	2.00	1.00	11/22/16	KCA	1	1
Ethyl acetate	ND	0.278	ND	1.00	11/22/16	KCA	1	1
Ethylbenzene	ND	0.230	ND	1.00	11/22/16	KCA	1	
Heptane	ND	0.244	ND	1.00	11/22/16	KCA	1	
Hexachlorobutadiene	ND	0.094	ND	1.00	11/22/16	KCA	1	
Hexane	31.2	0.284	110	1.00	11/22/16	KCA	1	
Isopropylalcohol	1.07	0.407	2.63	1.00	11/22/16	KCA	1	
Isopropylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1	
m,p-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1	
Methyl Ethyl Ketone	ND	0.339	ND	1.00	11/22/16	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	11/22/16	KCA	1	
Methylene Chloride	0.452	S 0.288	1.57	1.00	11/22/16	KCA	1	
n-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1	1
o-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1	
Propylene	ND	0.581	ND	1.00	11/22/16	KCA	1	1
sec-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1	1
Styrene	ND	0.235	ND	1.00	11/22/16	KCA	1	
Tetrachloroethene	10900	18.4	73900	125	11/23/16	KCA	500	
Tetrahydrofuran	3.36	0.339	9.9	1.00	11/22/16	KCA	1	1
Toluene	ND	0.266	ND	1.00	11/22/16	KCA	1	
Trans-1,2-Dichloroethene	3.96	0.252	15.7	1.00	11/22/16	KCA	1	
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1	
Trichloroethene	14600	23.3	78400	125	11/23/16	KCA	500	
Trichlorofluoromethane	0.421	0.178	2.36	1.00	11/22/16	KCA	1	
Trichlorotrifluoroethane	0.212	0.131	1.62	1.00	11/22/16	KCA	1	
Vinyl Chloride	ND	0.098	ND	0.25	11/22/16	KCA	1	
<u>QA/QC Surrogates</u>								
% Bromofluorobenzene	102	%	102	%	11/22/16	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 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

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:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

November 30, 2016

Reviewed and Released by: Ethan Lee, 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

November 30, 2016

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 701

Custody Information

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

Date Time
11/18/16 10:06
11/21/16 15:04

Laboratory Data

SDG ID: GBV88451
Phoenix ID: BV88452

Project ID: FROST STREET
Client ID: MIDFLUENT

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	11/22/16	KCA	1
1,1,1-Trichloroethane	2.60	0.183	14.2	1.00	11/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	11/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	11/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	11/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	11/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	11/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	11/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	11/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	11/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	11/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	11/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
Acetone	1.19	S 0.421	2.83	1.00	11/22/16	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	11/22/16	KCA	1
Benzene	0.390	0.313	1.25	1.00	11/22/16	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	11/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	11/22/16	KCA	1
Bromoform	ND	0.097	ND	1.00	11/22/16	KCA	1
Bromomethane	ND	0.258	ND	1.00	11/22/16	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	11/22/16	KCA	1
Carbon Tetrachloride	0.123	0.040	0.77	0.25	11/22/16	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	11/22/16	KCA	1
Chloroethane	ND	0.379	ND	1.00	11/22/16	KCA	1
Chloroform	0.243	0.205	1.19	1.00	11/22/16	KCA	1
Chloromethane	ND	0.485	ND	1.00	11/22/16	KCA	1
Cis-1,2-Dichloroethene	142	126	563	499	11/23/16	KCA	500
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1
Cyclohexane	0.811	0.291	2.79	1.00	11/22/16	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	11/22/16	KCA	1
Dichlorodifluoromethane	0.611	0.202	3.02	1.00	11/22/16	KCA	1
Ethanol	0.919	0.531	1.73	1.00	11/22/16	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	11/22/16	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	11/22/16	KCA	1
Heptane	ND	0.244	ND	1.00	11/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	11/22/16	KCA	1
Hexane	5.81	0.284	20.5	1.00	11/22/16	KCA	1
Isopropylalcohol	ND	0.407	ND	1.00	11/22/16	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	11/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	11/22/16	KCA	1
Methylene Chloride	ND	0.288	ND	1.00	11/22/16	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1
o-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1
Propylene	ND	0.581	ND	1.00	11/22/16	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1
Styrene	ND	0.235	ND	1.00	11/22/16	KCA	1
Tetrachloroethene	20300	18.4	138000	125	11/23/16	KCA	500
Tetrahydrofuran	0.624	0.339	1.84	1.00	11/22/16	KCA	1
Toluene	ND	0.266	ND	1.00	11/22/16	KCA	1
Trans-1,2-Dichloroethene	1.83	0.252	7.25	1.00	11/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1
Trichloroethene	793	23.3	4260	125	11/23/16	KCA	500
Trichlorofluoromethane	0.410	0.178	2.30	1.00	11/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	11/22/16	KCA	1
Vinyl Chloride	ND	0.098	ND	0.25	11/22/16	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	105	%	105	%	11/22/16	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 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

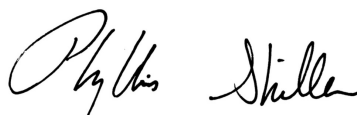
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

November 30, 2016

Reviewed and Released by: Ethan Lee, 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

November 30, 2016

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 742

Custody Information

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

Date Time
11/18/16 11:11
11/21/16 15:04

Laboratory Data

SDG ID: GBV88451
Phoenix ID: BV88453

Project ID: FROST STREET
Client ID: INFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	11/22/16	KCA	1
1,1,1-Trichloroethane	1.33	0.183	7.25	1.00	11/22/16	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	11/22/16	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	11/22/16	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	11/22/16	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	11/22/16	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	11/22/16	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	11/22/16	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	11/22/16	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	11/22/16	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	11/22/16	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	11/22/16	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	11/22/16	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	11/22/16	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	11/22/16	KCA	1
Acetone	1.80	S 0.421	4.27	1.00	11/22/16	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	11/22/16	KCA	1
Benzene	ND	0.313	ND	1.00	11/22/16	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	11/22/16	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	11/22/16	KCA	1
Bromoform	ND	0.097	ND	1.00	11/22/16	KCA	1
Bromomethane	ND	0.258	ND	1.00	11/22/16	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	11/22/16	KCA	1
Carbon Tetrachloride	0.087	0.040	0.55	0.25	11/22/16	KCA	1
Chlorobenzene	0.258	0.217	1.19	1.00	11/22/16	KCA	1
Chloroethane	ND	0.379	ND	1.00	11/22/16	KCA	1
Chloroform	0.246	0.205	1.20	1.00	11/22/16	KCA	1
Chloromethane	ND	0.485	ND	1.00	11/22/16	KCA	1
Cis-1,2-Dichloroethene	90.4	75.0	358	297	11/24/16	KCA	375
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1
Cyclohexane	ND	0.291	ND	1.00	11/22/16	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	11/22/16	KCA	1
Dichlorodifluoromethane	0.569	0.202	2.81	1.00	11/22/16	KCA	1
Ethanol	0.907	0.531	1.71	1.00	11/22/16	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	11/22/16	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	11/22/16	KCA	1
Heptane	ND	0.244	ND	1.00	11/22/16	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	11/22/16	KCA	1
Hexane	ND	0.284	ND	1.00	11/22/16	KCA	1
Isopropylalcohol	1.35	0.407	3.32	1.00	11/22/16	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	11/22/16	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1
Methyl Ethyl Ketone	0.684	0.339	2.02	1.00	11/22/16	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	11/22/16	KCA	1
Methylene Chloride	2.62	S 0.288	9.10	1.00	11/22/16	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1
o-Xylene	ND	0.230	ND	1.00	11/22/16	KCA	1
Propylene	ND	0.581	ND	1.00	11/22/16	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	11/22/16	KCA	1
Styrene	ND	0.235	ND	1.00	11/22/16	KCA	1
Tetrachloroethene	4140	13.8	28100	93.5	11/24/16	KCA	375
Tetrahydrofuran	ND	0.339	ND	1.00	11/22/16	KCA	1
Toluene	ND	0.266	ND	1.00	11/22/16	KCA	1
Trans-1,2-Dichloroethene	1.28	0.252	5.07	1.00	11/22/16	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	11/22/16	KCA	1
Trichloroethene	213	17.5	1140	94.0	11/24/16	KCA	375
Trichlorofluoromethane	0.346	0.178	1.94	1.00	11/22/16	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	11/22/16	KCA	1
Vinyl Chloride	ND	0.098	ND	0.25	11/22/16	KCA	1
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	108	%	108	%	11/22/16	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 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

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:

S - Laboratory solvent, contamination is possible.

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

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Phyllis Shiller, Laboratory Director

November 30, 2016

Reviewed and Released by: Ethan Lee, Project Manager



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

November 30, 2016

QA/QC Data

SDG I.D.: GBV88451

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 367704 (ppbv), QC Sample No: BV88451 (BV88451, BV88452, BV88453)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.183	ND	1.00	112	63.3	62.2	11.6	11.4	1.7	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.183	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.247	ND	1.00	75	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.252	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.166	ND	1.00	81	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.247	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.216	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.452	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.166	ND	1.00	88	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.166	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.278	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.244	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.204	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.182	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.421	ND	1.00	92	3.73 S	3.73 S	1.57 S	1.57 S	NC	70 - 130	25
Acrylonitrile	ND	0.461	ND	1.00	72	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.313	ND	1.00	103	2.01	1.95	0.628	0.612	NC	70 - 130	25
Benzyl chloride	ND	0.193	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.149	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.257	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.321	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.040	ND	0.25	114	1.74	1.77	0.277	0.281	1.4	70 - 130	25
Chlorobenzene	ND	0.217	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.379	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.205	ND	1.00	104	1.68	1.72	0.344	0.353	NC	70 - 130	25
Chloromethane	ND	0.484	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.291	ND	1.00	103	27.6	28.8	8.02	8.38	4.4	70 - 130	25
Dibromochloromethane	ND	0.117	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.202	ND	1.00	119	3.02	3.00	0.611	0.608	NC	70 - 130	25
Ethanol	ND	0.531	ND	1.00	81	2.00	2.24	1.06	1.19	NC	70 - 130	25
Ethyl acetate	ND	0.278	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GBV88451

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
Ethylbenzene	ND	0.230	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.244	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.284	ND	1.00	101	110	111	31.2	31.4	0.6	70 - 130	25
Isopropylalcohol	ND	0.407	ND	1.00	96	2.63	2.58	1.07	1.05	NC	70 - 130	25
Isopropylbenzene	ND	0.204	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.339	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	87	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.288	ND	1.00	81	1.57	ND	0.452	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.182	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.581	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.182	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.235	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.339	ND	1.00	84	9.9	10.2	3.36	3.47	3.2	70 - 130	25
Toluene	ND	0.266	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	77	15.7	16.3	3.96	4.12	4.0	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.178	ND	1.00	104	2.36	2.49	0.421	0.443	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.131	ND	1.00	91	1.62	1.67	0.212	0.218	NC	70 - 130	25
Vinyl Chloride	ND	0.098	ND	0.25	99	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	108	%	108	%	98	102	109	102	109	NC	70 - 130	25

QA/QC Batch 367892 (ppbv), QC Sample No: BV89467 (BV88451 (500X) , BV88452 (500X) , BV88453 (375X))

Volatiles

Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
November 30, 2016

Wednesday, November 30, 2016

Criteria: None

State: NY

Sample Criteria Exceedances Report

GBV88451 - 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 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.



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

CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 1 of 1

Data Delivery:

☐ Fax #:

☒ Email: janetw@enviro-labs.com

☐ Phone #:

Report to:		Invoice to:		Project Name: <u>East Street</u>												
Customer: <u>EnviroTree LTD</u>		Requested Deliverable: RCP ☐ ASP CAT B ☐		Requested Deliverable: RCP ☐ ASP CAT B ☐												
Address: <u>5 Old Dock Road</u>		MCP ☐ NJ Deliverables ☐		MCP ☐ NJ Deliverables ☐												
Yaphank, NY 11980		Sampled by: <u>Jim Wilkinson</u>		State where samples collected: <u>NY</u>												
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)	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
THIS SECTION FOR LAB USE ONLY																
88451	Effluent	712	1.4	30		—	—	10:00	10:01	11/18						
88452	Midfluent	701	1	1		—	—	10:05	10:06							
88453	Influent	742	1	1		—	—	10:10	11:11							
Relinquished by: <u>Jim Wilkinson</u> Date: <u>11-21-16</u> Time: <u>11:10</u>																
Accepted by: <u>Kevin Bunce</u> Date: <u>11-21-16</u> Time: <u>15:00</u>																
SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION:																
Requested Criteria																
Quote Number: _____ Signature: _____ Date: _____																
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.																