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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

July 10, 2017

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

Re: Progress Report: June 2017
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 June 2017.

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 after the carbon exchange, on June 16, 2017, 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**.
 - 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 exhibit 0.0 parts per million total volatile organic compounds.
 - o Effluent concentrations are well below the allowable limits, as shown in the table below.

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)	June 2017 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	12.7
Tetrachloroethene	1,000	38,000	13.6
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	143

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 first quarter 2017 groundwater sampling event was completed during the week of March 27, 2017. The electronic data deliverable was submitted to NYSDEC on June 8, 2017 and the monitoring report was submitted on July 10, 2017.
- The second quarter 2017 groundwater sampling event was completed during the week of June 19, 2017.

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.

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J. LaPoma, U.S. EPA	<i>Via email to lapoma.jennifer@epa.gov</i>
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P. Coop, EnSafe	<i>Via email to pcoop@ensafe.com</i>
J. Parillo, EnSafe	<i>Via email to jparillo@ensafe.com</i>
J. Wilkinson, Envirotrac	<i>Via email to jamesw@envirotrac.com</i>

Appendix A
SVE/AS System O&M Logs

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

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

Date: 1-Jun
Weather / Temp: Clear / 68 DEG
Technician / Operator: DW

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

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)	46,860.7			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,038.4			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	52				VGAC-1 Influent PID (ppm)	6.4			
VGAC-1 Effluent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	48				VGAC-2 Influent PID (ppm)	6.4			
VGAC-2 Effluent Vacuum ("H2O)	48				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	40				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	43				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	8.4								
Transfer Pump Total Runtime (hrs)	25,026.0				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)	38	6500	142		SVE-4 ("H2O)/(FPM)/cfm)/ppm)	32	3900	85	
SVE-2 ("H2O)/(FPM)/cfm)/ppm)	40	4000	87		SVE-5 ("H2O)/(FPM)/cfm)/ppm)	32	2750	60	
SVE-3 ("H2O)/(FPM)/cfm)/ppm)	32	4400	96		SVE-6B ("H2O)/(FPM)/cfm)/ppm)	32	5500	120	
SVE-3A ("H2O)/(FPM)/cfm)/ppm)	30	4000	87		SVE-7 ("H2O)/(FPM)/cfm)/ppm)	34	2800	61	
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)	188			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	21,634.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/cfm)	15		10		AS-11 (psi)/cfm)	13		4	
AS-2 (psi)/cfm)	15		6		AS-12B (psi)/cfm)	13		9	
AS-3 (psi)/cfm)	13		5		AS-13B (psi)/cfm)	13		11	
AS-4 (psi)/cfm)	13		8		AS-14 (psi)/cfm)	14		12	
AS-5 (psi)/cfm)	14		8		AS-15 (psi)/cfm)	14		10	
AS-6 (psi)/cfm)	14		8		AS-16B (psi)/cfm)	14		10	
AS-7 (psi)/cfm)	14		4		AS-17 (psi)/cfm)	14		4	
AS-8 (psi)/cfm)	14		10		AS-18 (psi)/cfm)	14		6	
AS-9 (psi)/cfm)	14		11		AS-19 (psi)/cfm)	13		4	
AS-10B (psi)/cfm)	13		10						

Notes, Comments & Observations:

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: 7-Jun
Weather / Temp: Clear / 58 DEG
Technician / Operator: DW

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

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)	46,935.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,038.3			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	54				VGAC-1 Influent PID (ppm)	6.6			
VGAC-1 Effluent Vacuum ("H2O)	52				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	48				VGAC-2 Influent PID (ppm)	6.6			
VGAC-2 Effluent Vacuum ("H2O)	48				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	40				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	44				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	8								
Transfer Pump Total Runtime (hrs)	25,026.0				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	6250	136		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	32	3900	85	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	42	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	32	2600	57	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4500	98		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	32	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	30	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	34	2800	61	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	89			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	178			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	21,776.0			
Manifold Regulator Pressure (psi)	80								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		10		AS-11 (psi)/(cfm)	14		4	
AS-2 (psi)/(cfm)	14		7		AS-12B (psi)/(cfm)	14		8	
AS-3 (psi)/(cfm)	13		6		AS-13B (psi)/(cfm)	14		12	
AS-4 (psi)/(cfm)	13		12		AS-14 (psi)/(cfm)	14		12	
AS-5 (psi)/(cfm)	15		8		AS-15 (psi)/(cfm)	13		10	
AS-6 (psi)/(cfm)	14		8		AS-16B (psi)/(cfm)	13		10	
AS-7 (psi)/(cfm)	15		4		AS-17 (psi)/(cfm)	13		4	
AS-8 (psi)/(cfm)	14		9		AS-18 (psi)/(cfm)	13		5	
AS-9 (psi)/(cfm)	14		10		AS-19 (psi)/(cfm)	13		4	
AS-10B (psi)/(cfm)	14		10						

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: 16-Jun
 Weather / Temp: Clear / 70 DEG
 Technician / Operator: DW

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

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)	4400	864	Blower 1 Total Runtime (hrs)	47,047.2					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	47,038.5					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	3		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	60		VGAC-1 Influent PID (ppm)	5.5					
VGAC-1 Effluent Vacuum ("H2O)	50		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	46		VGAC-2 Influent PID (ppm)	5.5					
VGAC-2 Effluent Vacuum ("H2O)	48		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Vacuum ("H2O)	42		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Vacuum ("H2O)	45		VGAC-3 Effluent PID (ppm)	0.0					
Blower Effluent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	9								
Transfer Pump Total Runtime (hrs)	25,026.0		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)	38	6250	136	10.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	30	3800	83	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	40	3750	82	5.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	30	2700	59	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	32	4300	94	4.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	30	5500	120	14.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	33	3800	83	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	32	2700	59	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	92				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	194				
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	21,939.0				
Manifold Regulator Pressure (psi)	85								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	15	9	AS-11 (psi)/(cfm)	14	4				
AS-2 (psi)/(cfm)	15	6	AS-12B (psi)/(cfm)	13	8				
AS-3 (psi)/(cfm)	13	6	AS-13B (psi)/(cfm)	14	12				
AS-4 (psi)/(cfm)	13	8	AS-14 (psi)/(cfm)	14	11				
AS-5 (psi)/(cfm)	14	7	AS-15 (psi)/(cfm)	14	11				
AS-6 (psi)/(cfm)	14	8	AS-16B (psi)/(cfm)	14	10				
AS-7 (psi)/(cfm)	14	4	AS-17 (psi)/(cfm)	14	5				
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	9	6				
AS-9 (psi)/(cfm)	14	10	AS-19 (psi)/(cfm)	14	4				
AS-10B (psi)/(cfm)	13	10							

Notes, Comments & Observations: _____

Collected monthly samples. _____

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: 20-Jun
Weather / Temp: Clear / 88 DEG
Technician / Operator: DW

Arrival Time: 15:00
Departure Time: 16:30

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)	47,099.8			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,038.5			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	62				VGAC-1 Effluent PID (ppm)	5.9			
VGAC-1 Effluent Vacuum ("H2O)	64				VGAC-2 Influent PID (ppm)	5.9			
VGAC-2 Influent Vacuum ("H2O)	48				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-2 Effluent Vacuum ("H2O)	48				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	40				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	44				Blower Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA								
Blower Effluent Pressure ("H2O)	8.2								
Transfer Pump Total Runtime (hrs)	25,026.0				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	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	32	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	42	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	32	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	34	4500	98		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	32	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	32	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	34	2800	61	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	92			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	228			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	22,041.0			
Manifold Regulator Pressure (psi)	85								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	15	9	AS-11 (psi)/(cfm)		13	4			
AS-2 (psi)/(cfm)	15	6	AS-12B (psi)/(cfm)		13	8			
AS-3 (psi)/(cfm)	13	5	AS-13B (psi)/(cfm)		13	11			
AS-4 (psi)/(cfm)	13	8	AS-14 (psi)/(cfm)		14	10			
AS-5 (psi)/(cfm)	13	7	AS-15 (psi)/(cfm)		14	10			
AS-6 (psi)/(cfm)	13	7	AS-16B (psi)/(cfm)		13	10			
AS-7 (psi)/(cfm)	14	4	AS-17 (psi)/(cfm)		14	4			
AS-8 (psi)/(cfm)	13	10	AS-18 (psi)/(cfm)		8	6			
AS-9 (psi)/(cfm)	13	10	AS-19 (psi)/(cfm)		12	4			
AS-10B (psi)/(cfm)	14	10							

Notes, Comments & Observations: _____

Performed semi-annual blower and compressor maintenance services.

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: 28-Jun
Weather / Temp: Clear / 74 DEG
Technician / Operator: DW

Arrival Time: 14:00
Departure Time: 15:00

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)	47,173.2			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	47,098.0			
Blower 2 Fresh Air Valve Open (%)	0				Blower 1 Air Filter Differential Pressure ("H2O)	0			
Moisture Separator Vacuum ("Hg)	3				Blower 2 Air Filter Differential Pressure ("H2O)	0			
VGAC-1 Influent Vacuum ("H2O)	62				VGAC-1 Influent PID (ppm)	5.9			
VGAC-1 Effluent Vacuum ("H2O)	45				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	52				VGAC-2 Influent PID (ppm)	5.9			
VGAC-2 Effluent Vacuum ("H2O)	50				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Vacuum ("H2O)	45				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Vacuum ("H2O)	49				VGAC-3 Effluent PID (ppm)	0.0			
Blower Effluent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	11								
Transfer Pump Total Runtime (hrs)	25,026.0				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)	32	4000	87	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	42	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	32	2800	61	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4500	98		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	32	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	32	2800	61	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	78			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	191			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	22,187.0			
Manifold Regulator Pressure (psi)	70								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	13		10		AS-11 (psi)/(cfm)	14		4	
AS-2 (psi)/(cfm)	14		7		AS-12B (psi)/(cfm)	13		8	
AS-3 (psi)/(cfm)	14		6		AS-13B (psi)/(cfm)	13		16	
AS-4 (psi)/(cfm)	13		8		AS-14 (psi)/(cfm)	14		11	
AS-5 (psi)/(cfm)	14		8		AS-15 (psi)/(cfm)	14		10	
AS-6 (psi)/(cfm)	14		10		AS-16B (psi)/(cfm)	13		10	
AS-7 (psi)/(cfm)	14		4		AS-17 (psi)/(cfm)	13		4	
AS-8 (psi)/(cfm)	13		10		AS-18 (psi)/(cfm)	10		6	
AS-9 (psi)/(cfm)	14		10		AS-19 (psi)/(cfm)	13		4	
AS-10B (psi)/(cfm)	13		10						

Notes, Comments & Observations:

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

[illegible]

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



Monday, June 26, 2017

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

Project ID: ENSAFE-WESTBURY
Sample ID#s: BY43198 - BY43199

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

June 26, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 703

Custody Information

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

Date

06/16/17 10:05
06/20/17 16:34

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GBY43198
Phoenix ID: BY43198

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	06/21/17	KCA	1
1,1,1-Trichloroethane	0.849	0.183	4.63	1.00	06/21/17	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	06/21/17	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	06/21/17	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	06/21/17	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	06/21/17	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	06/21/17	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	06/21/17	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	06/21/17	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	06/21/17	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	06/21/17	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	06/21/17	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	06/21/17	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	06/21/17	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	06/21/17	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	06/21/17	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	06/21/17	KCA	1
Acetone	1.76	S 0.421	4.18	1.00	06/21/17	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	06/21/17	KCA	1
Benzene	ND	0.313	ND	1.00	06/21/17	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	06/21/17	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	06/21/17	KCA	1
Bromoform	ND	0.097	ND	1.00	06/21/17	KCA	1
Bromomethane	ND	0.258	ND	1.00	06/21/17	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	06/21/17	KCA	1
Carbon Tetrachloride	0.075	0.040	0.47	0.25	06/21/17	KCA	1
Chlorobenzene	0.263	0.217	1.21	1.00	06/21/17	KCA	1
Chloroethane	ND	0.379	ND	1.00	06/21/17	KCA	1
Chloroform	ND	0.205	ND	1.00	06/21/17	KCA	1
Chloromethane	ND	0.485	ND	1.00	06/21/17	KCA	1
Cis-1,2-Dichloroethene	138	18.9	547	74.9	06/22/17	KCA	75
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	06/21/17	KCA	1
Cyclohexane	ND	0.291	ND	1.00	06/21/17	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	06/21/17	KCA	1
Dichlorodifluoromethane	0.488	0.202	2.41	1.00	06/21/17	KCA	1
Ethanol	1.02	0.531	1.92	1.00	06/21/17	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	06/21/17	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	06/21/17	KCA	1
Heptane	ND	0.244	ND	1.00	06/21/17	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	06/21/17	KCA	1
Hexane	ND	0.284	ND	1.00	06/21/17	KCA	1
Isopropylalcohol	0.671	0.407	1.65	1.00	06/21/17	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	06/21/17	KCA	1
Methyl Ethyl Ketone	0.404	0.339	1.19	1.00	06/21/17	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	06/21/17	KCA	1
Methylene Chloride	ND	0.288	ND	1.00	06/21/17	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	06/21/17	KCA	1
o-Xylene	ND	0.230	ND	1.00	06/21/17	KCA	1
Propylene	ND	0.581	ND	1.00	06/21/17	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	06/21/17	KCA	1
Styrene	ND	0.235	ND	1.00	06/21/17	KCA	1
Tetrachloroethene	2480	2.77	16800	18.8	06/22/17	KCA	75
Tetrahydrofuran	ND	0.339	ND	1.00	06/21/17	KCA	1
Toluene	ND	0.266	ND	1.00	06/21/17	KCA	1
Trans-1,2-Dichloroethene	2.12	0.252	8.40	1.00	06/21/17	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	06/21/17	KCA	1
Trichloroethene	206	3.49	1110	18.7	06/22/17	KCA	75
Trichlorofluoromethane	0.245	0.178	1.38	1.00	06/21/17	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	06/21/17	KCA	1
Vinyl Chloride	ND	0.098	ND	0.25	06/21/17	KCA	1
<u>QA/OC Surrogates</u>							
% Bromofluorobenzene	108	%	108	%	06/21/17	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 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:

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

June 26, 2017

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

June 26, 2017

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

Sample Information

Matrix: AIR
Location Code: ENVIOTR
Rush Request: 72 Hour
P.O.#:
Canister Id: 855

Custody Information

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

Date

06/16/17 10:03
06/20/17 16:34

Time

Project ID: ENSAFE-WESTBURY
Client ID: SVE EFFLUENT

Laboratory Data

SDG ID: GBY43198
Phoenix ID: BY43199

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	06/21/17	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	06/21/17	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	06/21/17	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	06/21/17	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	06/21/17	KCA	1
1,1-Dichloroethene	ND	0.252	ND	1.00	06/21/17	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	06/21/17	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	06/21/17	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	06/21/17	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	06/21/17	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	06/21/17	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	06/21/17	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	06/21/17	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	06/21/17	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	06/21/17	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	06/21/17	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	06/21/17	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	06/21/17	KCA	1
Acetone	1.01	S 0.421	2.40	1.00	06/21/17	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	06/21/17	KCA	1
Benzene	ND	0.313	ND	1.00	06/21/17	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	06/21/17	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	06/21/17	KCA	1
Bromoform	ND	0.097	ND	1.00	06/21/17	KCA	1
Bromomethane	ND	0.258	ND	1.00	06/21/17	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	06/21/17	KCA	1
Carbon Tetrachloride	ND	0.040	ND	0.25	06/21/17	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	06/21/17	KCA	1
Chloroethane	ND	0.379	ND	1.00	06/21/17	KCA	1
Chloroform	ND	0.205	ND	1.00	06/21/17	KCA	1
Chloromethane	ND	0.485	ND	1.00	06/21/17	KCA	1
Cis-1,2-Dichloroethene	36.2	1.26	143	4.99	06/22/17	KCA	5
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	06/21/17	KCA	1
Cyclohexane	ND	0.291	ND	1.00	06/21/17	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	06/21/17	KCA	1
Dichlorodifluoromethane	0.495	0.202	2.45	1.00	06/21/17	KCA	1
Ethanol	0.850	0.531	1.60	1.00	06/21/17	KCA	1
Ethyl acetate	ND	0.278	ND	1.00	06/21/17	KCA	1
Ethylbenzene	ND	0.230	ND	1.00	06/21/17	KCA	1
Heptane	ND	0.244	ND	1.00	06/21/17	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	06/21/17	KCA	1
Hexane	ND	0.284	ND	1.00	06/21/17	KCA	1
Isopropylalcohol	0.891	0.407	2.19	1.00	06/21/17	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	06/21/17	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	06/21/17	KCA	1
Methyl Ethyl Ketone	ND	0.339	ND	1.00	06/21/17	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	06/21/17	KCA	1
Methylene Chloride	ND	0.288	ND	1.00	06/21/17	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	06/21/17	KCA	1
o-Xylene	ND	0.230	ND	1.00	06/21/17	KCA	1
Propylene	ND	0.581	ND	1.00	06/21/17	KCA	1
sec-Butylbenzene	ND	0.182	ND	1.00	06/21/17	KCA	1
Styrene	ND	0.235	ND	1.00	06/21/17	KCA	1
Tetrachloroethene	2.00	0.037	13.6	0.25	06/21/17	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	06/21/17	KCA	1
Toluene	ND	0.266	ND	1.00	06/21/17	KCA	1
Trans-1,2-Dichloroethene	0.736	0.252	2.92	1.00	06/21/17	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	06/21/17	KCA	1
Trichloroethene	2.36	0.047	12.7	0.25	06/21/17	KCA	1
Trichlorofluoromethane	0.194	0.178	1.09	1.00	06/21/17	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	06/21/17	KCA	1
Vinyl Chloride	ND	0.098	ND	0.25	06/21/17	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	103	%	103	%	06/21/17	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 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:

S - Laboratory solvent, contamination is possible.

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

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 26, 2017

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

June 26, 2017

QA/QC Data

SDG I.D.: GBY43198

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 390805 (ppbv), QC Sample No: BY43230 (BY43198, BY43199)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.183	ND	1.00	104	1.07	1.23	0.197	0.225	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.183	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.247	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.252	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	168	2.34	3.03	0.316	0.408	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	114	10.3	10.5	2.09	2.13	1.9	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.166	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.247	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.216	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	116	3.96	4.14	0.807	0.842	NC	70 - 130	25
1,3-Butadiene	ND	0.452	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.166	ND	1.00	113	9.6	10.2	1.60	1.69	5.5	70 - 130	25
1,4-Dichlorobenzene	ND	0.166	ND	1.00	117	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.278	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.244	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.204	ND	1.00	119	3.38	3.63	0.689	0.739	NC	70 - 130	25
4-Isopropyltoluene	ND	0.182	ND	1.00	120	1.02	1.03	0.186	0.187	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	96	2.53	2.95	0.617	0.721	NC	70 - 130	25
Acetone	ND	0.421	ND	1.00	98	175	182	73.9	76.7	3.7	70 - 130	25
Acrylonitrile	ND	0.461	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.313	ND	1.00	81	6.93	6.67	2.17	2.09	3.8	70 - 130	25
Benzyl chloride	ND	0.193	ND	1.00	162	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.149	ND	1.00	101	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	0.257	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.321	ND	1.00	107	1.42	1.45	0.457	0.466	NC	70 - 130	25
Carbon Tetrachloride	ND	0.040	ND	0.25	109	0.33	0.33	0.053	0.053	NC	70 - 130	25
Chlorobenzene	ND	0.217	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.379	ND	1.00	91	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.205	ND	1.00	102	17.0	17.6	3.49	3.60	3.1	70 - 130	25
Chloromethane	ND	0.484	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.291	ND	1.00	92	1.57	1.57	0.457	0.455	NC	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	98	2.41	2.45	0.488	0.496	NC	70 - 130	25
Ethanol	ND	0.531	ND	1.00	94	135	139	71.7	73.8	2.9	70 - 130	25
Ethyl acetate	ND	0.278	ND	1.00	81	5.44	6.16	1.51	1.71	12.4	70 - 130	25

QA/QC Data

SDG I.D.: GBY43198

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	112	13.3	14.0	3.07	3.23	5.1	70 - 130	25
Heptane	ND	0.244	ND	1.00	96	2.91	2.97	0.711	0.725	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	128	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.284	ND	1.00	110	3.14 S	3.30 S	0.891 S	0.937 S	NC	70 - 130	25
Isopropylalcohol	ND	0.407	ND	1.00	85	9.46	9.6	3.85	3.92	1.8	70 - 130	25
Isopropylbenzene	ND	0.204	ND	1.00	111	1.38	1.52	0.281	0.310	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	113	49.5	52.9	11.4	12.2	6.8	70 - 130	25
Methyl Ethyl Ketone	ND	0.339	ND	1.00	112	12.2	12.9	4.13	4.36	5.4	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.277	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.288	ND	1.00	96	2.04 S	2.15 S	0.588 S	0.620 S	NC	70 - 130	25
n-Butylbenzene	ND	0.182	ND	1.00	120	ND	1.46	ND	0.266	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	114	33.8	35.7	7.78	8.22	5.5	70 - 130	25
Propylene	ND	0.581	ND	1.00	90	8.67	9.00	5.04	5.23	3.7	70 - 130	25
sec-Butylbenzene	ND	0.182	ND	1.00	119	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.235	ND	1.00	114	4.19	4.24	0.984	0.997	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	100	16.1	16.8	2.37	2.48	4.5	70 - 130	25
Tetrahydrofuran	ND	0.339	ND	1.00	109	9.43	10.2	3.20	3.46	7.8	70 - 130	25
Toluene	ND	0.266	ND	1.00	107	30.6	31.7	8.12	8.43	3.7	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	96	228	231	42.4	43.0	1.4	70 - 130	25
Trichlorofluoromethane	ND	0.178	ND	1.00	99	2.84	2.70	0.506	0.481	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.131	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.098	ND	0.25	98	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101	%	101	%	99	97	102	97	102	NC	70 - 130	25

QA/QC Batch 391148 (ppbv), QC Sample No: BY43835 (BY43198 (75X) , BY43199 (5X))

Volatiles

Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	101						70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	106						70 - 130	25
Trichloroethene	ND	0.047	ND	0.25	104						70 - 130	25

I = This parameter is outside laboratory LCS/LCSD specified recovery 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
June 26, 2017

Monday, June 26, 2017

Criteria: None

State: NY

Sample Criteria Exceedances Report

GBY43198 - 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.



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Analysis Comments

June 26, 2017

SDG I.D.: GBY43198

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

AIRSIM

CHEM20 06/20/17-1: BY43198, BY43199

The following Initial Calibration compounds did not meet RSD% criteria: Benzyl chloride(sim) 40% (30%), n-Butylbenzene(sim) 31% (30%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: Benzyl chloride(sim) 40% (30%), n-Butylbenzene(sim) 31% (30%)

The following Continuing Calibration compounds did not meet % deviation criteria: Benzene(sim) 31%H (30%), Benzyl chloride(sim) 78%H (30%)

The following Continuing Calibration compounds did not meet Maximum % deviation criteria: Benzene(sim) 31%H (30%), Benzyl chloride(sim) 78%H (30%)



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Data Delivery:

Fax #: _____

Email: Jamesw@envirotrac.com

pg. _____ of _____

Page 12 of 12