

Via email to rob.decandia@dec.ny.gov

September 11, 2018

Mr. Robert D. DeCandia Jr. P.E
NYSDEC, Division of Environmental Remediation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: August 2018
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. DeCandia:

EnSafe Inc. is pleased to submit this Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in August 2018.

Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M) (OU1)

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**).
- Quantitative sampling of the SVE system granular activated carbon influent and effluent air flow was conducted on August 24, 2018, 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 Photoionization detector readings and influent concentrations of Frost Street-related contaminants of concern (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride [21,071 µg/m³]) continue to indicate significant mass extraction.
 - o Effluent concentrations are well below the allowable limits, as shown in the table below.

Frost Street Sites Effluent Compliance			
Compound	Annual Mass Emission Limit (lbs/year)	Allowable Continuous Annual Concentration (µg/m ³)	August 2018 Effluent Concentration (µg/m ³)
Trichloroethene	500	19,000	ND
Tetrachloroethene	1,000	38,000	1.32
Vinyl Chloride	100	3,800	ND
Cis-1,2-Dichloroethene	100	3,800	305

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.

Groundwater Extraction/Hydraulic Containment System Installation (OU2)

Discharge permit compliance samples were collected on August 2, 2018; results were submitted to Nassau County in a semi-annual compliance report on September 7, 2018. All results will in compliance with the exception of pH, which was slightly below the permit limit; this was addressed shortly thereafter with the installation of additional PHIX in the treatment cell. At this time, individual samples were also collected from each extraction well and analyzed for VOCs; a summary of the detected values is provided below, full results are provided in Appendix C.

Groundwater Extraction System Individual Extraction Well Data – Volatile Organic Compounds – August 2, 2018 (ppb)					
Analyte	EX-1A	EX-1B	EX-1C	EX-D	
1,1-Dichloroethene	ND	ND	ND	ND	0.60 J
Chloroform	ND	ND	ND	ND	0.48 J
Methylene chloride	ND	ND	7.2 B	5.9 B	
Tetrachloroethene	170	290	8.9	4.1	
Trichloroethene	6.0	7.2	2.1	5.6	
Total VOCs	176	297.2	18.2	16.68	

Currently, the pumps in EX-1B, EX-1C, and EX-1D are operating at design flow rates; the pump in EX-1D was operating at a lower flow rate due to a power outage on August 22, 2018. The system was restarted on September 7, 2018 and the pump in EX-1D regained full performance. The pump in EX-1A has malfunctioned and is currently being diagnosed. The repair and/or replacement of this pump will be determined pending NYSDEC approval of the *Expanded Pumping Test Summary, Findings, and Recommendations*, submitted on August 10, 2018.

Groundwater Monitoring

- The first quarter 2018 groundwater sampling report was submitted to NYSDEC on September 11, 2018.
- The second quarter 2018 groundwater sampling report is in progress and will be submitted to NYSDEC once complete. The electronic data deliverable for this sampling event was submitted to NYSDEC on August 23, 2018.

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
C. Bethoney, NYSDOH
J. Nealon, NYSDOH
R. Putnam, NCDOH
T. Mongelli, U.S. EPA
T. Pupilla, Sanders Equities
K. Maldonado, Esq.
J. Privitera, Esq.
P. Coop, EnSafe
J. Wilkinson, Envirotrac

Via email to amtamuno@gw.dec.state.ny.us
Via email to charlotte.bethoney@health.ny.gov
Via email to jacquelyn.nealon@health.ny.gov
Via email to rputnam@nassaucountyny.gov
Via email to Mongelli.Thomas@epa.gov
Via email to tpupilla@sandersequities.com
Via email to kevinmaldonado64@yahoo.com
Via email to privitera@mltw.com
Via email to pcoop@ensafe.com
Via email to jamesw@envirotrac.com

Appendix A
SVE/AS System O&M Logs

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

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

Date: 10-Aug
 Weather / Temp: Clear / 85 DEG
 Technician / Operator: JW

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

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)	OFF		ON						
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4600		903		Blower 1 Total Runtime (hrs)	51,494.7			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	51,303.9			
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)	43				VGAC-1 Influent PID (ppm)	1.1			
VGAC-1 Effluent Vacuum ("H2O)	45				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	40				VGAC-2 Influent PID (ppm)	1.1			
VGAC-2 Effluent Vacuum ("H2O)	45				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	50				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	60				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	9								
Transfer Pump Total Runtime (hrs)	25,033.0				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)	45	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4500	98	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	45	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4500	98		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	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)	92			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	193			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	28,385			
Manifold Regulator Pressure (psi)	80								
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		8	
AS-4 (psi)/(cfm)	13		6		AS-14 (psi)/(cfm)	15		10	
AS-5 (psi)/(cfm)	14		5		AS-15 (psi)/(cfm)	15		10	
AS-6 (psi)/(cfm)	14		7		AS-16B (psi)/(cfm)	13		10	
AS-7 (psi)/(cfm)	14		5		AS-17 (psi)/(cfm)	13		4	
AS-8 (psi)/(cfm)	13		10		AS-18 (psi)/(cfm)	13		5	
AS-9 (psi)/(cfm)	14		6		AS-19 (psi)/(cfm)	13		4	
AS-10B (psi)/(cfm)	13		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: 17-Aug
 Weather / Temp: Clear / 80 DEG
 Technician / Operator: JW

Arrival Time: 10:30
 Departure Time: 11:30

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)	4600		903		Blower 1 Total Runtime (hrs)	51,578.6			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	51,387.1			
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)	44				VGAC-1 Influent PID (ppm)	4.9			
VGAC-1 Effluent Vacuum ("H2O)	45				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	40				VGAC-2 Influent PID (ppm)	4.9			
VGAC-2 Effluent Vacuum ("H2O)	45				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	50				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	60				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temp (DegF)	NA				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	9								
Transfer Pump Total Runtime (hrs)	25,033.0				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)	44	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4250	93		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	38	4800	105		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	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)	204			
Compressor 1 Runtime (hrs)	27,317				Compressor 2 Runtime (hrs)	28,551			
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)	14		9	
AS-3 (psi)/(cfm)	13		5		AS-13B (psi)/(cfm)	13		8	
AS-4 (psi)/(cfm)	13		6		AS-14 (psi)/(cfm)	15		10	
AS-5 (psi)/(cfm)	14		5		AS-15 (psi)/(cfm)	13		10	
AS-6 (psi)/(cfm)	14		7		AS-16B (psi)/(cfm)	13		10	
AS-7 (psi)/(cfm)	14		5		AS-17 (psi)/(cfm)	13		4	
AS-8 (psi)/(cfm)	13		10		AS-18 (psi)/(cfm)	13		5	
AS-9 (psi)/(cfm)	14		6		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: 24-Aug
 Weather / Temp: Sunny / 90 DEG
 Technician / Operator: JW

Arrival Time: 11:00
 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)	51,665.1					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	51,466.7					
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)	43		VGAC-1 Influent PID (ppm)	3.2					
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	3.2					
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	9								
Transfer Pump Total Runtime (hrs)	25,033.0		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)	46	7250	158	8.2	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	38	4400	96	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	48	4500	98	1.8	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	3400	74	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	5100	111	1.9	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6500	142	8.7
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	39	4500	98	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	40	3400	74	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	95				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	201				
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	28,717				
Manifold Regulator Pressure (psi)	80								
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)	13	6	AS-12B (psi)/(cfm)	14	7				
AS-3 (psi)/(cfm)	13	5	AS-13B (psi)/(cfm)	13	10				
AS-4 (psi)/(cfm)	13	6	AS-14 (psi)/(cfm)	14	10				
AS-5 (psi)/(cfm)	15	5	AS-15 (psi)/(cfm)	13	9				
AS-6 (psi)/(cfm)	14	6	AS-16B (psi)/(cfm)	13	9				
AS-7 (psi)/(cfm)	14	5	AS-17 (psi)/(cfm)	14	4				
AS-8 (psi)/(cfm)	14	9	AS-18 (psi)/(cfm)	12	4				
AS-9 (psi)/(cfm)	14	5	AS-19 (psi)/(cfm)	12	4				
AS-10B (psi)/(cfm)	13	9							

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: 30-Aug
Weather / Temp: Sunny / 80 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 15:30

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)	4800	942	Blower 1 Total Runtime (hrs)	51,739.8	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	51,538.7	
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)	43		VGAC-1 Influent PID (ppm)	3.2	
VGAC-1 Effluent Vacuum ("H2O)	45		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	40		VGAC-2 Influent PID (ppm)	3.2	
VGAC-2 Effluent Vacuum ("H2O)	45		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Pressure ("H2O)	50		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Pressure ("H2O)	60		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temp (DegF)	NA		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	9				
Transfer Pump Total Runtime (hrs)	25,033.0		Condensate Storage Tank Level (gal)	0	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7250	158		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	48	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	5000	109		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	95
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	171
Compressor 1 Runtime (hrs)	27,317			Compressor 2 Runtime (hrs)	28,838
Manifold Regulator Pressure (psi)	75				
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)	13	6	AS-12B (psi)/(cfm)	14	7
AS-3 (psi)/(cfm)	13	5	AS-13B (psi)/(cfm)	12	10
AS-4 (psi)/(cfm)	13	6	AS-14 (psi)/(cfm)	14	10
AS-5 (psi)/(cfm)	15	5	AS-15 (psi)/(cfm)	12	10
AS-6 (psi)/(cfm)	14	6	AS-16B (psi)/(cfm)	12	10
AS-7 (psi)/(cfm)	14	5	AS-17 (psi)/(cfm)	14	5
AS-8 (psi)/(cfm)	14	10	AS-18 (psi)/(cfm)	12	5
AS-9 (psi)/(cfm)	14	4	AS-19 (psi)/(cfm)	12	4
AS-10B (psi)/(cfm)	13	9			

Notes, Comments & Observations: _____

Collected monthly samples. _____

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

[illegible]

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



Wednesday, September 05, 2018

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

Project ID: ENSAFE WESTBURY
Sample ID#s: CB20128 - CB20129

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 #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



Analysis Report

September 05, 2018

FOR: Attn: 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: 763

Custody Information

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

Date

08/24/18 11:36
08/28/18 15:00

Time

Project ID: ENSAFE WESTBURY
Client ID: SVE INFLUENT

Laboratory Data

SDG ID: GCB20128
Phoenix ID: CB20128

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	08/29/18	KCA	1
1,1,1-Trichloroethane	0.901	0.183	4.91	1.00	08/29/18	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	08/29/18	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	08/29/18	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	08/29/18	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	08/29/18	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	08/29/18	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	08/29/18	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	08/29/18	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	08/29/18	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	08/29/18	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	08/29/18	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	08/29/18	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	08/29/18	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	08/29/18	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	08/29/18	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	08/29/18	KCA	1
Acetone	4.46	0.421	10.6	1.00	08/29/18	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	08/29/18	KCA	1
Benzene	ND	0.313	ND	1.00	08/29/18	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	08/29/18	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	08/29/18	KCA	1
Bromoform	ND	0.097	ND	1.00	08/29/18	KCA	1
Bromomethane	ND	0.258	ND	1.00	08/29/18	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	08/29/18	KCA	1
Carbon Tetrachloride	0.081	0.032	0.51	0.20	08/29/18	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	08/29/18	KCA	1
Chloroethane	ND	0.379	ND	1.00	08/29/18	KCA	1
Chloroform	0.232	0.205	1.13	1.00	08/29/18	KCA	1
Chloromethane	ND	0.485	ND	1.00	08/29/18	KCA	1
Cis-1,2-Dichloroethene	139	5.05	551	20.0	08/31/18	KCA	100
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	08/29/18	KCA	1
Cyclohexane	ND	0.291	ND	1.00	08/29/18	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	08/29/18	KCA	1
Dichlorodifluoromethane	0.635	0.202	3.14	1.00	08/29/18	KCA	1
Ethanol	2.19	0.531	4.12	1.00	08/29/18	KCA	1 1
Ethyl acetate	ND	0.278	ND	1.00	08/29/18	KCA	1 1
Ethylbenzene	ND	0.230	ND	1.00	08/29/18	KCA	1
Heptane	ND	0.244	ND	1.00	08/29/18	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	08/29/18	KCA	1
Hexane	ND	0.284	ND	1.00	08/29/18	KCA	1
Isopropylalcohol	1.10	0.407	2.70	1.00	08/29/18	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	08/29/18	KCA	1
Methyl Ethyl Ketone	0.767	0.339	2.26	1.00	08/29/18	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	08/29/18	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	08/29/18	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	08/29/18	KCA	1 1
o-Xylene	ND	0.230	ND	1.00	08/29/18	KCA	1
Propylene	ND	0.581	ND	1.00	08/29/18	KCA	1 1
sec-Butylbenzene	ND	0.182	ND	1.00	08/29/18	KCA	1 1
Styrene	ND	0.235	ND	1.00	08/29/18	KCA	1
Tetrachloroethene	2880	3.69	19500	25.0	08/31/18	KCA	100
Tetrahydrofuran	0.569	0.339	1.68	1.00	08/29/18	KCA	1 1
Toluene	ND	0.266	ND	1.00	08/29/18	KCA	1
Trans-1,2-Dichloroethene	1.91	0.252	7.57	1.00	08/29/18	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	08/29/18	KCA	1
Trichloroethene	189	3.72	1020	20.0	08/31/18	KCA	100
Trichlorofluoromethane	0.448	0.178	2.52	1.00	08/29/18	KCA	1
Trichlorotrifluoroethane	0.180	0.131	1.38	1.00	08/29/18	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	08/29/18	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	101	%	101	%	08/29/18	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.

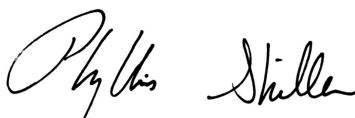
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

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 there are any questions regarding this data, please call Phoenix Client Services.

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Phyllis Shiller, Laboratory Director

September 05, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

September 05, 2018

FOR: Attn: 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: 758

Custody Information

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

Date

08/24/18 11:41
08/28/18 15:00

Time

Laboratory Data

SDG ID: GCB20128
Phoenix ID: CB20129

Project ID: ENSAFE WESTBURY
Client ID: SVE EFFLUENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	08/29/18	KCA	1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	08/29/18	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	08/29/18	KCA	1
1,1,2-Trichloroethane	ND	0.183	ND	1.00	08/29/18	KCA	1
1,1-Dichloroethane	ND	0.247	ND	1.00	08/29/18	KCA	1
1,1-Dichloroethene	ND	0.051	ND	0.20	08/29/18	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	08/29/18	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	08/29/18	KCA	1
1,2-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,2-Dichloroethane	ND	0.247	ND	1.00	08/29/18	KCA	1
1,2-dichloropropane	ND	0.217	ND	1.00	08/29/18	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	08/29/18	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
1,3-Butadiene	ND	0.452	ND	1.00	08/29/18	KCA	1
1,3-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,4-Dichlorobenzene	ND	0.166	ND	1.00	08/29/18	KCA	1
1,4-Dioxane	ND	0.278	ND	1.00	08/29/18	KCA	1
2-Hexanone(MBK)	ND	0.244	ND	1.00	08/29/18	KCA	1
4-Ethyltoluene	ND	0.204	ND	1.00	08/29/18	KCA	1
4-Isopropyltoluene	ND	0.182	ND	1.00	08/29/18	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	08/29/18	KCA	1
Acetone	10.9	0.421	25.9	1.00	08/29/18	KCA	1
Acrylonitrile	ND	0.461	ND	1.00	08/29/18	KCA	1
Benzene	ND	0.313	ND	1.00	08/29/18	KCA	1
Benzyl chloride	ND	0.193	ND	1.00	08/29/18	KCA	1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	ND	1.00	08/29/18	KCA	1
Bromoform	ND	0.097	ND	1.00	08/29/18	KCA	1
Bromomethane	ND	0.258	ND	1.00	08/29/18	KCA	1
Carbon Disulfide	ND	0.321	ND	1.00	08/29/18	KCA	1
Carbon Tetrachloride	ND	0.032	ND	0.20	08/29/18	KCA	1
Chlorobenzene	ND	0.217	ND	1.00	08/29/18	KCA	1
Chloroethane	ND	0.379	ND	1.00	08/29/18	KCA	1
Chloroform	ND	0.205	ND	1.00	08/29/18	KCA	1
Chloromethane	1.08	0.485	2.23	1.00	08/29/18	KCA	1
Cis-1,2-Dichloroethene	76.9	0.252	305	1.00	08/31/18	KCA	5
cis-1,3-Dichloropropene	ND	0.221	ND	1.00	08/29/18	KCA	1
Cyclohexane	ND	0.291	ND	1.00	08/29/18	KCA	1
Dibromochloromethane	ND	0.118	ND	1.00	08/29/18	KCA	1
Dichlorodifluoromethane	0.649	0.202	3.21	1.00	08/29/18	KCA	1
Ethanol	2.46	0.531	4.63	1.00	08/29/18	KCA	1 1
Ethyl acetate	ND	0.278	ND	1.00	08/29/18	KCA	1 1
Ethylbenzene	ND	0.230	ND	1.00	08/29/18	KCA	1
Heptane	ND	0.244	ND	1.00	08/29/18	KCA	1
Hexachlorobutadiene	ND	0.094	ND	1.00	08/29/18	KCA	1
Hexane	0.334	S 0.284	1.18	1.00	08/29/18	KCA	1
Isopropylalcohol	1.00	0.407	2.46	1.00	08/29/18	KCA	1
Isopropylbenzene	ND	0.204	ND	1.00	08/29/18	KCA	1
m,p-Xylene	ND	0.230	ND	1.00	08/29/18	KCA	1
Methyl Ethyl Ketone	2.57	0.339	7.57	1.00	08/29/18	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	08/29/18	KCA	1
Methylene Chloride	ND	0.864	ND	3.00	08/29/18	KCA	1
n-Butylbenzene	ND	0.182	ND	1.00	08/29/18	KCA	1 1
o-Xylene	ND	0.230	ND	1.00	08/29/18	KCA	1
Propylene	ND	0.581	ND	1.00	08/29/18	KCA	1 1
sec-Butylbenzene	ND	0.182	ND	1.00	08/29/18	KCA	1 1
Styrene	ND	0.235	ND	1.00	08/29/18	KCA	1
Tetrachloroethene	0.195	0.037	1.32	0.25	08/29/18	KCA	1
Tetrahydrofuran	ND	0.339	ND	1.00	08/29/18	KCA	1 1
Toluene	ND	0.266	ND	1.00	08/29/18	KCA	1
Trans-1,2-Dichloroethene	0.946	0.252	3.75	1.00	08/29/18	KCA	1
trans-1,3-Dichloropropene	ND	0.221	ND	1.00	08/29/18	KCA	1
Trichloroethene	ND	0.037	ND	0.20	08/29/18	KCA	1
Trichlorofluoromethane	0.254	0.178	1.43	1.00	08/29/18	KCA	1
Trichlorotrifluoroethane	ND	0.131	ND	1.00	08/29/18	KCA	1
Vinyl Chloride	ND	0.078	ND	0.20	08/29/18	KCA	1
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	98	%	98	%	08/29/18	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 (preceeded 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.

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Phyllis Shiller, Laboratory Director

September 05, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

September 05, 2018

QA/QC Data

SDG I.D.: GCB20128

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 445261 (ppbv), QC Sample No: CB20129 (CB20128, CB20129)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	102	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	99	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	111	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	99	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	119	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	118	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	109	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	89	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	113	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	118	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	81	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	89	25.9	29.0	10.9	12.2	11.3	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	104	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	108	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	103	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	98	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	103	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	99	2.21	2.89	1.07	1.40	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	115	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	119	3.21	3.62	0.649	0.732	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	116	4.63	6.44	2.46	3.42	NC	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	92	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCB20128

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	99	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	100	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	114	1.18 S	1.32 S	0.334 S	0.376 S	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	102	2.46	3.00	1.00	1.22	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	117	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	107	7.57	7.90	2.57	2.68	4.2	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	98	ND	4.13 S	ND S	1.19 S	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	116	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	104	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	107	1.32	1.36	0.195	0.200	2.5	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	92	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	96	3.75	4.28	0.946	1.08	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	108	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	107	1.43	1.61	0.254	0.287	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	103	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	90		90		102	98	93	98	93	NC	70 - 130	25

QA/QC Batch 445693 (ppbv), QC Sample No: CB21613 (CB20128 (100X) , CB20129 (5X))

Volatiles

Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	106	2.09	3.34	0.309	0.493	45.9	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	107	ND	ND	ND	ND	NC	70 - 130	25

r = This parameter is outside laboratory RPD 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
September 05, 2018

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCB20128 - ENVIROTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

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



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



Analysis Comments

September 05, 2018

SDG I.D.: GCB20128

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



800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page 2 of 2

Data Delivery:

Fax #:

Email:

Phone #:

jameswbenning.com

Project Name: Enclave - Wertheim	
Requested Deliverable: RCP ☐	ASP CAT B ☐
MCP ☐	NI Deliverables ☐
State where samples collected: NY	

Handwritten: 1-10-80

Soil Gas

Crab (G) Composite (C)

10-14

1

[illegible]

Data Format:									
Excel	☒	Equis	☐	Other	☐	(P&K)			
Turnaround Time:									

SPECIAL INSTRUCTIONS, DC REQUIREMENTS, REGULATORY INFORMATION

(2) (1-4L) GRAB

Requested Criteria	
--------------------	--

Quote Number:

☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☒ Standard

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: _____

Date: _____

Appendix C
Groundwater Extraction System Analytical Data



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

August 08, 2018

Jim Wilkinson
Envirotrac
5 Old Dock Road
Yaphank, NY 11980
TEL: (631) 924-3001
FAX (631) 924-5001

RE: Frost Street OU2; 101 Frost St, Westbury,

Order No.: 1808016

Dear Jim Wilkinson:

American Analytical Laboratories, LLC. received 4 sample(s) on 8/2/2018 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: **1808016**

08-Aug-18

CLIENT: Envirotrac
Project: Frost Street OU2; 101 Frost St, Westbury, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1808016-001A	EX-1A		8/2/2018 11:00:00 AM	8/2/2018 12:45:00 PM	Liquid
1808016-002A	EX-1B		8/2/2018 10:55:00 AM	8/2/2018 12:45:00 PM	Liquid
1808016-003A	EX-1C		8/2/2018 10:50:00 AM	8/2/2018 12:45:00 PM	Liquid
1808016-004A	EX-1D		8/2/2018 10:45:00 AM	8/2/2018 12:45:00 PM	Liquid

Original



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **ENVIROTRAC**

Work Order Number: **1808016**

RcptNo: **1**

Logged by: **Lori Beyer** **8/2/2018 12:45:00 PM**

Lori Beyer

Completed By: **Lori Beyer** **8/2/2018 1:53:48 PM**

Lori Beyer

Reviewed By: **Karen Kelly** **8/2/2018**

Karen Kelly

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Case Narrative

WO#: 1808016
Date: 8/8/2018

CLIENT: Envirotrac
Project: Frost Street OU2; 101 Frost St, Westbury, NY

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional EPA methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers.

Volatile LCS are analyzed with preservatives - HCL/NaHSO₄/Methanol depending on level of analysis (high/low) similar to sample analysis. Outliers can be attributed to the presence of chemical preservatives. 2-Chloroethyl vinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

The following parameters (if included in this report) are not offered by NY ELAP: VOA 8260 Soil; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Diisopropyl ether, Ethanol, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. VOA 8260 Liquid; 1,2,4,5-Tetramethylbenzene, Chlorodifluoromethane, Freon-114, p-Diethylbenzene, p-Ethyltoluene, Limonene. Pesticides 8081 Soil; DBCP. Herbicides 8151 Soil; 3,5-Dichlorobenzoic Acid, 4-Nitrophenol, Acifluorfen, Bentazon, Chloramben, DCPA, Picloram. Lachat 10-107-6-1B Ammonia in Soil, SM 2540G Total Volatile Solids, Soil TKN, Soil Organic Nitrogen, Percent Moisture, pH in non-potable water and temperature at which pH is measured, SM 4500-SO₃ B Sulfite in Liquid, Total Sulfur in Soil, Acid Soluble Chloride by ASTM C1152, Water Soluble Chloride by ASTM C1218, Chlorine Demand by SM 2350 B, Total Residual Chlorine in Liquid and Reactivity to Sulfide and Reactivity to Cyanide.

The test results meet the requirements of the NYSDOH and NELAC standards, except where noted. The information contained in this analytical report is the sole property of American Analytical Laboratories, LLC. or the client for which this report was issued. The results contained in this report are only representative of the samples received. The sample receipt checklist is included as part of this lab report. Conditions can vary at different times and at different sampling conditions. American Analytical is not responsible for the use or interpretation of the data included herein.

Original



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Definition Only

WO#: 1808016
Date: 8/8/2018

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <5x the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be >20%.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

PQL - Practical Quantitation Limit; the lowest level that can be reliably achieved within the specific limits of Precision and accuracy. Listed on the QC Summary Forms.

m - Analyte was manually integrated for GC/MS.

+

Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: EX-1A

Lab Order: 1808016

Collection Date: 8/2/2018 11:00:00 AM

Project: Frost Street OU2; 101 Frost St, Westbury, NY

Matrix: LIQUID

Lab ID: 1808016-001A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,1-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Chloroform	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	8/3/2018 2:40:00 PM
Tetrachloroethene	170	2.5	20	D	µg/L	10	8/7/2018 3:47:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Trichloroethene	6.0	0.25	2.0		µg/L	1	8/3/2018 2:40:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	8/3/2018 2:40:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	8/3/2018 2:40:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT:	Envirotrac	Client Sample ID:	EX-1A
Lab Order:	1808016	Collection Date:	8/2/2018 11:00:00 AM
Project:	Frost Street OU2; 101 Frost St, Westbury, NY	Matrix:	LIQUID
Lab ID:	1808016-001A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	8/3/2018 2:40:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	8/3/2018 2:40:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: EX-1B

Lab Order: 1808016

Collection Date: 8/2/2018 10:55:00 AM

Project: Frost Street OU2; 101 Frost St, Westbury, NY

Matrix: LIQUID

Lab ID: 1808016-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,1-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Chloroform	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Methylene chloride	ND	5.0	5.0	U	µg/L	1	8/3/2018 3:10:00 PM
Tetrachloroethene	290	2.5	20	D	µg/L	10	8/7/2018 4:17:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Trichloroethene	7.2	0.25	2.0		µg/L	1	8/3/2018 3:10:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	8/3/2018 3:10:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	8/3/2018 3:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT:	Envirotrac	Client Sample ID:	EX-1B
Lab Order:	1808016	Collection Date:	8/2/2018 10:55:00 AM
Project:	Frost Street OU2; 101 Frost St, Westbury, NY	Matrix:	LIQUID
Lab ID:	1808016-002A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	8/3/2018 3:10:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	8/3/2018 3:10:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735
Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: EX-1C

Lab Order: 1808016

Collection Date: 8/2/2018 10:50:00 AM

Project: Frost Street OU2; 101 Frost St, Westbury, NY

Matrix: LIQUID

Lab ID: 1808016-003A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,1-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Chloroform	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Methylene chloride	7.2	5.0	5.0	B	µg/L	1	8/7/2018 2:47:00 PM
Tetrachloroethene	8.9	0.25	2.0		µg/L	1	8/7/2018 2:47:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Trichloroethene	2.1	0.25	2.0		µg/L	1	8/7/2018 2:47:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	8/7/2018 2:47:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	8/7/2018 2:47:00 PM

American Analytical Laboratories, LLC., 56 Toledo Street, Farmingdale, New York, Zip - 11735

Tel - (631) 454-6100 Fax - (631) 454-8027 www.american-analytical.com



Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT:	Envirotrac	Client Sample ID:	EX-1C
Lab Order:	1808016	Collection Date:	8/2/2018 10:50:00 AM
Project:	Frost Street OU2; 101 Frost St, Westbury, NY	Matrix:	LIQUID
Lab ID:	1808016-003A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	8/7/2018 2:47:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	8/7/2018 2:47:00 PM

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Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: EX-1D

Lab Order: 1808016

Collection Date: 8/2/2018 10:45:00 AM

Project: Frost Street OU2; 101 Frost St, Westbury, NY

Matrix: LIQUID

Lab ID: 1808016-004A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1			E624.1		E624.1		Analyst: LA
1,1,1-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,1,2,2-Tetrachloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,1,2-Trichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,1-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,1-Dichloroethene	0.60	0.25	2.0	J	µg/L	1	8/7/2018 3:17:00 PM
1,2-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,2-Dichloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,2-Dichloropropane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,3-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
1,4-Dichlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
2-Chloroethyl vinyl ether	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Benzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Bromodichloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Bromoform	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Bromomethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Carbon tetrachloride	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Chlorobenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Chloroethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Chloroform	0.48	0.25	2.0	J	µg/L	1	8/7/2018 3:17:00 PM
Chloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
cis-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Dibromochloromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Ethylbenzene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Methylene chloride	5.9	5.0	5.0	B	µg/L	1	8/7/2018 3:17:00 PM
Tetrachloroethene	4.1	0.25	2.0		µg/L	1	8/7/2018 3:17:00 PM
Toluene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
trans-1,2-Dichloroethene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
trans-1,3-Dichloropropene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Trichloroethene	5.6	0.25	2.0		µg/L	1	8/7/2018 3:17:00 PM
Trichlorofluoromethane	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Vinyl chloride	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
Xylenes, Total	ND	0.60	6.0	U	µg/L	1	8/7/2018 3:17:00 PM
Acetone	ND	5.0	5.0	U	µg/L	1	8/7/2018 3:17:00 PM

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Original

American Analytical Laboratories, LLC.

Date: 08-Aug-18

ELAP ID : 11418

CLIENT:	Envirotrac	Client Sample ID:	EX-1D
Lab Order:	1808016	Collection Date:	8/2/2018 10:45:00 AM
Project:	Frost Street OU2; 101 Frost St, Westbury, NY	Matrix:	LIQUID
Lab ID:	1808016-004A		

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE EPA METHOD 624.1							Analyst: LA
m,p-Xylene	ND	0.40	4.0	U	µg/L	1	8/7/2018 3:17:00 PM
Methyl tert-butyl ether	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM
o-Xylene	ND	0.25	2.0	U	µg/L	1	8/7/2018 3:17:00 PM

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Original

American Analytical Laboratories, LLC.**WorkOrder: 1808016****Client: Envirotrac****Project: Frost Street OU2; 101 Frost St, Westbury, NY****Procedure: VOLATILE EPA METHOD 624.1**

Client Sample ID:			EX-1A	EX-1B	EX-1C	EX-1D
Laboratory ID:			1808016-001	1808016-002	1808016-003	1808016-004
Sampling Date:			08/02/2018	08/02/2018	08/02/2018	08/02/2018
Cas #:	Analyte:	Units:	Q	Q	Q	Q
71-55-6	1,1,1-Trichloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
79-34-5	1,1,2,2-Tetrachloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
79-00-5	1,1,2-Trichloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
75-34-3	1,1-Dichloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
75-35-4	1,1-Dichloroethene	PPB	0.25	U 0.25	U 0.25	U 0.60
95-50-1	1,2-Dichlorobenzene	PPB	0.25	U 0.25	U 0.25	U 0.25
107-06-2	1,2-Dichloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
78-87-5	1,2-Dichloropropane	PPB	0.25	U 0.25	U 0.25	U 0.25
541-73-1	1,3-Dichlorobenzene	PPB	0.25	U 0.25	U 0.25	U 0.25
106-46-7	1,4-Dichlorobenzene	PPB	0.25	U 0.25	U 0.25	U 0.25
110-75-8	2-Chloroethyl vinyl ether	PPB	0.25	U 0.25	U 0.25	U 0.25
71-43-2	Benzene	PPB	0.25	U 0.25	U 0.25	U 0.25
75-27-4	Bromodichloromethane	PPB	0.25	U 0.25	U 0.25	U 0.25
75-25-2	Bromoform	PPB	0.25	U 0.25	U 0.25	U 0.25
74-83-9	Bromomethane	PPB	0.25	U 0.25	U 0.25	U 0.25
56-23-5	Carbon tetrachloride	PPB	0.25	U 0.25	U 0.25	U 0.25
108-90-7	Chlorobenzene	PPB	0.25	U 0.25	U 0.25	U 0.25
75-00-3	Chloroethane	PPB	0.25	U 0.25	U 0.25	U 0.25
67-66-3	Chloroform	PPB	0.25	U 0.25	U 0.25	U 0.48
74-87-3	Chloromethane	PPB	0.25	U 0.25	U 0.25	U 0.25
10061-01-5	cis-1,3-Dichloropropene	PPB	0.25	U 0.25	U 0.25	U 0.25
124-48-1	Dibromochloromethane	PPB	0.25	U 0.25	U 0.25	U 0.25
100-41-4	Ethylbenzene	PPB	0.25	U 0.25	U 0.25	U 0.25
75-09-2	Methylene chloride	PPB	5.0	U 5.0	U 7.2	B 5.9
127-18-4	Tetrachloroethene	PPB	170	D 290	D 8.9	4.1
108-88-3	Toluene	PPB	0.25	U 0.25	U 0.25	U 0.25
156-60-5	trans-1,2-Dichloroethene	PPB	0.25	U 0.25	U 0.25	U 0.25
10061-02-6	trans-1,3-Dichloropropene	PPB	0.25	U 0.25	U 0.25	U 0.25
79-01-6	Trichloroethene	PPB	6.0	7.2	2.1	5.6
75-69-4	Trichlorofluoromethane	PPB	0.25	U 0.25	U 0.25	U 0.25
75-01-4	Vinyl chloride	PPB	0.25	U 0.25	U 0.25	U 0.25
1330-20-7	Xylenes, Total	PPB	0.60	U 0.60	U 0.60	U 0.60
67-64-1	Acetone	PPB	5.0	U 5.0	U 5.0	U 5.0
179601-23-1	m,p-Xylene	PPB	0.40	U 0.40	U 0.40	U 0.40
1634-04-4	Methyl tert-butyl ether	PPB	0.25	U 0.25	U 0.25	U 0.25
95-47-6	o-Xylene	PPB	0.25	U 0.25	U 0.25	U 0.25