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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

March 16, 2015

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

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

Dear Mr. Dyber:

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

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

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**).
- Quantitative sampling of the SVE system granular activated carbon (GAC) influent and effluent air flow was conducted on February 26, 2016 using Summa canisters. These samples were obtained by EnviroTrac. Samples were submitted to Chemtech, and analyzed by Method TO-15. Results are included in **Appendix B**.

Quarterly/Annual Groundwater Monitoring

- The fourth quarter 2015 groundwater sampling event was completed during the week of December 7, 2015. The samples are being analyzed and will be validated by a third party data validator. Results were included in the Fourth Quarter Groundwater Monitoring Report, submitted on March 9, 2016.

If you have any questions regarding this progress report, please do not hesitate to contact me at 860-665-1140 or astark@ensafe.com.

Sincerely,

EnSafe, Inc., by



Alexandra Stark, P.E.

Copies: A. Tamuno, Esq.

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J. Nealon, NYSDOH

J. DeFranco, NCDOH

R. Stallone, Spiegel Realty

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Via email to cwise@ensafe.com

Appendix A

SVE/AS System O&M Logs

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

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

Date: 2-Feb
Weather / Temp: Clear / 40 DEG
Technician / Operator: DW

Arrival Time: 12:00
Departure Time: 13:00

System Status					
	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	ON	ON	Sensaphone (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	OFF	OFF	Surge Protection (ON/OFF)	ON	ON
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White
AS Compressor 2 (ON/OFF)	OFF	ON			
Soil Vapor Extraction System					
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4200	825	Blower 1 Total Runtime (hrs)	41,317.6	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	42,183.9	
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	15	
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0	
VGAC-1 Influent Vacuum ("H2O)	76		VGAC-1 Influent PID (ppm)	20.6	
VGAC-1 Effluent Vacuum ("H2O)	64		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	60		VGAC-2 Influent PID (ppm)	20.6	
VGAC-2 Effluent Vacuum ("H2O)	80		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Pressure ("H2O)	9		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Pressure ("H2O)	2		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temperature (DegF)	130		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	18				
Transfer Pump Total Runtime (hrs)	25,020.9		Condensate Storage Tank Level (gal)	500 → 0	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	46	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	38	3800	83		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	82
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	176
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	14,633.0
Manifold Regulator Pressure (psi)	65				
AS Manifold Legs - Pressure/Flow Rate					
	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)	18	8	AS-11 (psi)/(cfm)	15	8
AS-2 (psi)/(cfm)	15	7	AS-12B (psi)/(cfm)	15	8
AS-3 (psi)/(cfm)	15	7	AS-13B (psi)/(cfm)	16	6
AS-4 (psi)/(cfm)	15	8	AS-14 (psi)/(cfm)	15	8
AS-5 (psi)/(cfm)	15	8	AS-15 (psi)/(cfm)	17	8
AS-6 (psi)/(cfm)	15	8	AS-16B (psi)/(cfm)	15	8
AS-7 (psi)/(cfm)	15	8	AS-17 (psi)/(cfm)	15	5
AS-8 (psi)/(cfm)	15	8	AS-18 (psi)/(cfm)	15	8
AS-9 (psi)/(cfm)	15	8	AS-19 (psi)/(cfm)	17	8
AS-10B (psi)/(cfm)	15	8			

Notes, Comments & Observations:

Compressor 1 off for repairs.

Emptied condensate storage tank.

Collected water sample.

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: 12-Feb
Weather / Temp: Clear / 25 DEG
Technician / Operator: JW

Arrival Time: 10:00
Departure Time: 11:00

System Status					
	Arrival	Departure		Arrival	Departure
SVE Blower 1 (ON/OFF)	ON	ON	Sensaphone (ON/OFF)	ON	ON
SVE Blower 2 (ON/OFF)	OFF	OFF	Surge Protection (ON/OFF)	ON	ON
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White
AS Compressor 2 (ON/OFF)	OFF	OFF			
Soil Vapor Extraction System					
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4600	903	Blower 1 Total Runtime (hrs)	41,437.5	
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	42,301.4	
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0	
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0	
VGAC-1 Influent Vacuum ("H2O)	78		VGAC-1 Influent PID (ppm)	20.0	
VGAC-1 Effluent Vacuum ("H2O)	70		VGAC-1 Effluent PID (ppm)	0.0	
VGAC-2 Influent Vacuum ("H2O)	66		VGAC-2 Influent PID (ppm)	20.0	
VGAC-2 Effluent Vacuum ("H2O)	52		VGAC-2 Effluent PID (ppm)	0.0	
VGAC-3 Influent Pressure ("H2O)	9		VGAC-3 Influent PID (ppm)	0.0	
VGAC-3 Effluent Pressure ("H2O)	2		VGAC-3 Effluent PID (ppm)	0.0	
VGAC-3 Influent Temperature (DegF)	130		Blower Effluent PID (ppm)	0.0	
Blower Effluent Pressure ("H2O)	18				
Transfer Pump Total Runtime (hrs)	25,021.2		Condensate Storage Tank Level (gal)	270	
SVE Manifold Legs - Vacuum/Flow Rate/PID					
	Vacuum	Velocity	Flow Rate	PID	
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	52	7900	172		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	5200	113		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	45	4400	96		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)
Air Sparge System					
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	14,822.0
Manifold Regulator Pressure (psi)					
AS Manifold Legs - Pressure/Flow Rate					
	Pressure	Flow Rate		Pressure	Flow Rate
AS-1 (psi)/(cfm)			AS-11 (psi)/(cfm)		
AS-2 (psi)/(cfm)			AS-12B (psi)/(cfm)		
AS-3 (psi)/(cfm)			AS-13B (psi)/(cfm)		
AS-4 (psi)/(cfm)			AS-14 (psi)/(cfm)		
AS-5 (psi)/(cfm)			AS-15 (psi)/(cfm)		
AS-6 (psi)/(cfm)			AS-16B (psi)/(cfm)		
AS-7 (psi)/(cfm)			AS-17 (psi)/(cfm)		
AS-8 (psi)/(cfm)			AS-18 (psi)/(cfm)		
AS-9 (psi)/(cfm)			AS-19 (psi)/(cfm)		
AS-10B (psi)/(cfm)					

Notes, Comments & Observations:

Compressor 1 off for repairs. Compressor 2 off due to High Temp Alarm, unable to restart due to cold temperature.

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-Feb
Weather / Temp: Rain / 50 DEG
Technician / Operator: JW, DW

Arrival Time: 8:00
Departure Time: 13:00

System Status									
		Arrival		Departure		Arrival		Departure	
SVE Blower 1 (ON/OFF)		ON		ON		Sensaphone (ON/OFF)		ON ON	
SVE Blower 2 (ON/OFF)		OFF		OFF		Surge Protection (ON/OFF)		ON ON	
AS Compressor 1 (ON/OFF)		OFF		OFF		Lightning Protection (White/Black)		White White	
AS Compressor 2 (ON/OFF)		OFF		ON					
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)		4400		864		Blower 1 Total Runtime (hrs)		41,485.7	
Blower 1 Fresh Air Valve Open (%)		0				Blower 2 Total Runtime (hrs)		42,348.0	
Blower 2 Fresh Air Valve Open (%)		0				Blower 1 Air Filter Differential Pressure ("H2O)		8.5	
Moisture Separator Vacuum ("Hg)		4				Blower 2 Air Filter Differential Pressure ("H2O)		0	
VGAC-1 Influent Vacuum ("H2O)		60				VGAC-1 Influent PID (ppm)		6.7	
VGAC-1 Effluent Vacuum ("H2O)		62				VGAC-1 Effluent PID (ppm)		0.0	
VGAC-2 Influent Vacuum ("H2O)		70				VGAC-2 Influent PID (ppm)		6.7	
VGAC-2 Effluent Vacuum ("H2O)		74				VGAC-2 Effluent PID (ppm)		0.0	
VGAC-3 Influent Pressure ("H2O)		6				VGAC-3 Influent PID (ppm)		0.0	
VGAC-3 Effluent Pressure ("H2O)		2				VGAC-3 Effluent PID (ppm)		0.0	
VGAC-3 Influent Temperature (DegF)		122				Blower Effluent PID (ppm)		0.0	
Blower Effluent Pressure ("H2O)		16							
Transfer Pump Total Runtime (hrs)		25,021.8				Condensate Storage Tank Level (gal)		360 → 0	
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/cfm)/ppm)	50	6500	142		SVE-4 ("H2O)/(FPM)/cfm)/ppm)	42	4000	87	
SVE-2 ("H2O)/(FPM)/cfm)/ppm)	52	4500	98		SVE-5 ("H2O)/(FPM)/cfm)/ppm)	42	3000	65	
SVE-3 ("H2O)/(FPM)/cfm)/ppm)	44	5000	109		SVE-6B ("H2O)/(FPM)/cfm)/ppm)	42	6500	142	
SVE-3A ("H2O)/(FPM)/cfm)/ppm)	42	4200	92		SVE-7 ("H2O)/(FPM)/cfm)/ppm)	44	2900	63	
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)		177	
Compressor 1 Runtime (hrs)		27,317.0				Compressor 2 Runtime (hrs)		14,823.0	
Manifold Regulator Pressure (psi)		80							
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate				Pressure	Flow Rate		
AS-1 (psi)/cfm)	18	6			AS-11 (psi)/cfm)	18	8		
AS-2 (psi)/cfm)	17	5			AS-12B (psi)/cfm)	16	8		
AS-3 (psi)/cfm)	15	8			AS-13B (psi)/cfm)	16	6		
AS-4 (psi)/cfm)	16	12			AS-14 (psi)/cfm)	17	8		
AS-5 (psi)/cfm)	18	8			AS-15 (psi)/cfm)	17	8		
AS-6 (psi)/cfm)	17	8			AS-16B (psi)/cfm)	16	8		
AS-7 (psi)/cfm)	17	8			AS-17 (psi)/cfm)	17	6		
AS-8 (psi)/cfm)	17	8			AS-18 (psi)/cfm)	16	8		
AS-9 (psi)/cfm)	17	8			AS-19 (psi)/cfm)	16	8		
AS-10B (psi)/cfm)	16	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Replaced Hydrovane oil, separators, and filters.

Changed blowers' oil and greased bearings.

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: 26-Feb
Weather / Temp: Clear / 45 DEG
Technician / Operator: JW

Arrival Time: 16:30
Departure Time: 17:30

System Status									
	Arrival		Departure			Arrival		Departure	
SVE Blower 1 (ON/OFF)	ON		OFF		Sensaphone (ON/OFF)	ON		ON	
SVE Blower 2 (ON/OFF)	OFF		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)	4200		825		Blower 1 Total Runtime (hrs)	41,611.5			
Blower 1 Fresh Air Valve Open (%)	0				Blower 2 Total Runtime (hrs)	42,466.1			
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)	70				VGAC-1 Influent PID (ppm)	26.0			
VGAC-1 Effluent Vacuum ("H2O)	68				VGAC-1 Effluent PID (ppm)	0.0			
VGAC-2 Influent Vacuum ("H2O)	56				VGAC-2 Influent PID (ppm)	26.0			
VGAC-2 Effluent Vacuum ("H2O)	80				VGAC-2 Effluent PID (ppm)	0.0			
VGAC-3 Influent Pressure ("H2O)	9				VGAC-3 Influent PID (ppm)	0.0			
VGAC-3 Effluent Pressure ("H2O)	2				VGAC-3 Effluent PID (ppm)	0.0			
VGAC-3 Influent Temperature (DegF)	134				Blower Effluent PID (ppm)	0.0			
Blower Effluent Pressure ("H2O)	17								
Transfer Pump Total Runtime (hrs)	25,022.1				Condensate Storage Tank Level (gal)	10			
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7500	164	40.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	3500	76	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	52	4000	87	16.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2500	55	1.1
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	50	4000	87	3.2	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	45	6000	131	70.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4000	87	1.1	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	45	2500	55	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	81			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	204			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	15,067.0			
Manifold Regulator Pressure (psi)	69								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate		Pressure	Flow Rate	
AS-1 (psi)/(cfm)	18	8		AS-11 (psi)/(cfm)	15		15	8	
AS-2 (psi)/(cfm)	15	8		AS-12B (psi)/(cfm)	15		15	8	
AS-3 (psi)/(cfm)	14	8		AS-13B (psi)/(cfm)	15		15	8	
AS-4 (psi)/(cfm)	15	8		AS-14 (psi)/(cfm)	15		15	8	
AS-5 (psi)/(cfm)	15	8		AS-15 (psi)/(cfm)	15		15	8	
AS-6 (psi)/(cfm)	15	8		AS-16B (psi)/(cfm)	15		15	8	
AS-7 (psi)/(cfm)	15	8		AS-17 (psi)/(cfm)	5		5	8	
AS-8 (psi)/(cfm)	15	8		AS-18 (psi)/(cfm)	16		16	8	
AS-9 (psi)/(cfm)	16	8		AS-19 (psi)/(cfm)	15		15	8	
AS-10B (psi)/(cfm)	15	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Collected monthly samples.

Appendix B

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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : FROST STREET SITES / SPGL 100.03

ENVIROTRAC ENVIRONMENTAL SERVICES

5 Old Dock Road

Yaphank, NY - 11980

Phone No: 631-924-3001

ORDER ID : H1658

ATTENTION : James Wilkinson



DoD ELAP

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1

2

3

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Cover Page

Order ID : H1658

Project ID : Frost Street Sites / SPGL 100.03

Client : Envirotrac Environmental Services

Lab Sample Number

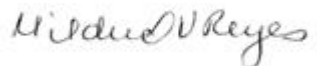
H1658-01
H1658-02

Client Sample Number

EFFLUENT
INFLUENT

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :



APPROVED

By Mildred V Reyes, QAQC Supervisor at 1:46 pm, Mar 16, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Envirotrac Environmental Services

Project Name: Frost Street Sites / SPGL 100.03

Project # N/A

Chemtech Project # H1658

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 03/02/2016.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SUMMA Canister Rental and TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {H1678-01DUP} with File ID: VL027167.D recoveries met criteria except for Dichlorodifluoromethane[65.1%], Naphthalene[21.4%] and tert-Butyl Alcohol[56.9%] .

The Blank Spike for {VL0304ABS02} with File ID: VL027158.D met requirements for all samples except for 1,4-Dioxane[146%] .

The Blank analysis indicated presence of Methylene Chloride[0.11 ppbv]
FileID:VL027156.D{VL0304ABL01} due to possible lab contamination.

The Initial Calibration met the requirements except for 1,4-Dioxane have more than 30% RSD in the Initial Calibration with dated 03/03/2016 with L Instrument but as per method two compounds as allowed to be fail .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample INFLUENT was diluted due to bad matrix.
Samples INFLUENT, INFLUENTDL were diluted due to high concentrations.

E. Additional Comments:

F. Manual Integration Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____ *Mildred V Reyes* _____

APPROVED

By Mildred V Reyes, QAQC Supervisor at 1:46 pm, Mar 16, 2016

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: H1658

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: SHIVANGI PANCHAL

Date: 03/10/2016

2nd Level QA Review Signature: _____

Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 1:46 pm, Mar 16, 2016



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: H1658
Client: Envirotrac Environmental Services
Contact: James Wilkinson

OrderDate: 3/2/2016 1:52:00 PM
Project: Frost Street Sites / SPGL 100.03
Location: Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H1658-01	EFFLUENT	Air	TO-15	TO-15	02/26/16		03/05/16	03/02/16
H1658-02	INFLUENT	Air	TO-15	TO-15	02/26/16		03/05/16	03/02/16
H1658-02DL	INFLUENTDL	Air	TO-15	TO-15	02/26/16		03/05/16	03/02/16
H1658-02DL 2	INFLUENTDL2	Air	TO-15	TO-15	02/26/16		03/05/16	03/02/16

Hit Summary Sheet SW-846

SDG No.: H1658

Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	EFFLUENT								
H1658-01	EFFLUENT	Air	Dichlorodifluoromethane	0.89	J	0.2	0.49	2.47	ug/m3
H1658-01	EFFLUENT	Air	Chloromethane	0.31	J	0.04	0.21	1.03	ug/m3
H1658-01	EFFLUENT	Air	Vinyl Chloride	0.10		0.05	0.08	0.08	ug/m3
H1658-01	EFFLUENT	Air	Acetone	1.35		0.02	0.24	1.19	ug/m3
H1658-01	EFFLUENT	Air	Methylene Chloride	0.94	JB	0.07	0.35	1.74	ug/m3
H1658-01	EFFLUENT	Air	Trichloroethene	0.16		0.11	0.16	0.16	ug/m3
H1658-01	EFFLUENT	Air	Toluene	6.78		0.04	0.38	1.88	ug/m3
H1658-01	EFFLUENT	Air	Tetrachloroethene	18.30		0.14	0.2	0.2	ug/m3
			Total Voc :	28.83					
			Total Concentration:	28.83					
Client ID:	INFLUENT								
H1658-02	INFLUENT	Air	Acetone	11.60	J	0.29	2.38	11.9	ug/m3
H1658-02	INFLUENT	Air	Methylene Chloride	27.10	B	0.59	3.47	17.4	ug/m3
H1658-02	INFLUENT	Air	trans-1,2-Dichloroethene	5.15	J	0.67	3.96	19.8	ug/m3
H1658-02	INFLUENT	Air	cis-1,2-Dichloroethene	674.00	E	0.71	3.96	19.8	ug/m3
H1658-02	INFLUENT	Air	Trichloroethene	1,666.00	E	0.81	1.61	1.61	ug/m3
H1658-02	INFLUENT	Air	Toluene	376.00		0.45	3.77	18.8	ug/m3
H1658-02	INFLUENT	Air	Tetrachloroethene	23,056.00	E	1.15	2.03	2.03	ug/m3
H1658-02	INFLUENT	Air	Hexane	9.87	J	0.53	3.52	17.6	ug/m3
			Total Voc :	25825.72					
			Total Concentration:	25825.72					
Client ID:	INFLUENTDL								
H1658-02DL	INFLUENTDL	Air	Acetone	13.30	JD	1.14	9.5	47.5	ug/m3
H1658-02DL	INFLUENTDL	Air	Methylene Chloride	37.50	JDB	2.33	13.9	69.5	ug/m3
H1658-02DL	INFLUENTDL	Air	cis-1,2-Dichloroethene	515.00	D	2.85	15.9	79.3	ug/m3
H1658-02DL	INFLUENTDL	Air	Trichloroethene	1,343.00	D	3.28	6.45	6.45	ug/m3
H1658-02DL	INFLUENTDL	Air	Toluene	260.00	D	1.81	15.1	75.4	ug/m3
H1658-02DL	INFLUENTDL	Air	Tetrachloroethene	38,652.00	ED	4.54	8.14	8.14	ug/m3
			Total Voc :	40820.8					
			Total Concentration:	40820.8					
Client ID:	INFLUENTDL2								
H1658-02DL2	INFLUENTDL2	Air	cis-1,2-Dichloroethene	753.00	JD	86.0	475	2378	ug/m3
H1658-02DL2	INFLUENTDL2	Air	Trichloroethene	2,310.00	D	98.9	193	193	ug/m3
H1658-02DL2	INFLUENTDL2	Air	Tetrachloroethene	99,005.00	D	136	244	244	ug/m3
			Total Voc :	102068					
			Total Concentration:	102068					

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : EFFLUENT

Analysis Date : 03/05/16

Laboratory Id Number : H1658-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.18	J	0.89		
Chloromethane	74-87-3	50.49	0.15	J	0.31		
Vinyl Chloride	75-01-4	62.5	0.04		0.1		
Bromomethane	74-83-9	94.94	0.1	U	0.39		
Chloroethane	75-00-3	64.52	0.1	U	0.26		
Tetrahydrofuran	109-99-9	72.11	0.1	U	0.29		
Trichlorofluoromethane	75-69-4	137.4	0.1	U	0.56		
Dichlorotetrafluoroethane	76-14-2	170.9	0.1	U	0.7		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.1	U	0.77		
Bromoethene	593-60-2	106.9	0.1	U	0.44		
tert-Butyl alcohol	75-65-0	74.12	0.1	U	0.3		
Heptane	142-82-5	100.2	0.1	U	0.41		
1,1-Dichloroethene	75-35-4	96.94	0.1	U	0.4		
Acetone	67-64-1	58.08	0.57		1.35		
Carbon Disulfide	75-15-0	76.14	0.1	U	0.31		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.1	U	0.36		
Methylene Chloride	75-09-2	84.94	0.27	J	0.94		
trans-1,2-Dichloroethene	156-60-5	96.94	0.1	U	0.4		
1,1-Dichloroethane	75-34-3	98.96	0.1	U	0.4		
Cyclohexane	110-82-7	84.16	0.1	U	0.34		
2-Butanone	78-93-3	72.11	0.1	U	0.29		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.1	U	0.4		
Chloroform	67-66-3	119.4	0.1	U	0.49		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.1	U	0.32		
1,2-Dichloroethane	107-06-2	98.96	0.1	U	0.4		
Trichloroethene	79-01-6	131.4	0.03		0.16		
1,2-Dichloropropane	78-87-5	113	0.1	U	0.46		
Bromodichloromethane	75-27-4	163.8	0.1	U	0.67		
4-Methyl-2-Pentanone	108-10-1	100.2	0.1	U	0.41		
Toluene	108-88-3	92.14	1.8		6.78		
t-1,3-Dichloropropene	10061-02-6	111	0.1	U	0.45		
cis-1,3-Dichloropropene	10061-01-5	111	0.1	U	0.45		
1,1,2-Trichloroethane	79-00-5	133.4	0.1	U	0.55		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : EFFLUENT

Analysis Date : 03/05/16

Laboratory Id Number : H1658-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.1	U	0.85		
1,2-Dibromoethane	106-93-4	187.9	0.1	U	0.77		
Tetrachloroethene	127-18-4	165.8	2.7		18.3		
Chlorobenzene	108-90-7	112.6	0.1	U	0.46		
Ethyl Benzene	100-41-4	106.2	0.1	U	0.43		
m/p-Xylene	179601-23-1	106.2	0.2	U	0.87		
o-Xylene	95-47-6	106.2	0.1	U	0.43		
Styrene	100-42-5	104.1	0.1	U	0.43		
Bromoform	75-25-2	252.8	0.1	U	1.03		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.1	U	0.69		
2-Chlorotoluene	95-49-8	126.6	0.1	U	0.52		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.1	U	0.49		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.1	U	0.49		
1,3-Dichlorobenzene	541-73-1	147	0.1	U	0.6		
1,4-Dichlorobenzene	106-46-7	147	0.1	U	0.6		
1,2-Dichlorobenzene	95-50-1	147	0.1	U	0.6		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.1	U	0.74		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.1	U	1.07		
Naphthalene	91-20-3	128.17	0.1	U	0.52		
1,3-Butadiene	106-99-0	54.09	0.1	U	0.22		
4-Ethyltoluene	622-96-8	120.2	0.1	U	0.49		
Hexane	110-54-3	86.17	0.1	U	0.35		
Allyl Chloride	107-05-1	76.53	0.1	U	0.31		
1,4-Dioxane	123-91-1	88.12	0.4	U	1.44		
Methyl Methacrylate	80-62-6	100.117	0.1	U	0.41		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENT

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1	U	4.94		
Chloromethane	74-87-3	50.49	1	U	2.07		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	1	U	3.88		
Chloroethane	75-00-3	64.52	1	U	2.64		
Tetrahydrofuran	109-99-9	72.11	1	U	2.95		
Trichlorofluoromethane	75-69-4	137.4	1	U	5.62		
Dichlorotetrafluoroethane	76-14-2	170.9	1	U	6.99		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	1	U	7.66		
Bromoethene	593-60-2	106.9	1	U	4.37		
tert-Butyl alcohol	75-65-0	74.12	1	U	3.03		
Heptane	142-82-5	100.2	1	U	4.1		
1,1-Dichloroethene	75-35-4	96.94	1	U	3.96		
Acetone	67-64-1	58.08	4.9	J	11.6		
Carbon Disulfide	75-15-0	76.14	1	U	3.11		
Methyl tert-Butyl Ether	1634-04-4	88.15	1	U	3.61		
Methylene Chloride	75-09-2	84.94	7.8		27.1		
trans-1,2-Dichloroethene	156-60-5	96.94	1.3	J	5.15		
1,1-Dichloroethane	75-34-3	98.96	1	U	4.05		
Cyclohexane	110-82-7	84.16	1	U	3.44		
2-Butanone	78-93-3	72.11	1	U	2.95		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	170	E	674		
Chloroform	67-66-3	119.4	1	U	4.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	1	U	4.67		
Benzene	71-43-2	78.11	1	U	3.19		
1,2-Dichloroethane	107-06-2	98.96	1	U	4.05		
Trichloroethene	79-01-6	131.4	310	E	1666		
1,2-Dichloropropane	78-87-5	113	1	U	4.62		
Bromodichloromethane	75-27-4	163.8	1	U	6.7		
4-Methyl-2-Pentanone	108-10-1	100.2	1	U	4.1		
Toluene	108-88-3	92.14	100		376		
t-1,3-Dichloropropene	10061-02-6	111	1	U	4.54		
cis-1,3-Dichloropropene	10061-01-5	111	1	U	4.54		
1,1,2-Trichloroethane	79-00-5	133.4	1	U	5.46		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENT

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	1	U	8.52		
1,2-Dibromoethane	106-93-4	187.9	1	U	7.69		
Tetrachloroethene	127-18-4	165.8	3400	E	23056		
Chlorobenzene	108-90-7	112.6	1	U	4.61		
Ethyl Benzene	100-41-4	106.2	1	U	4.34		
m/p-Xylene	179601-23-1	106.2	2	U	8.69		
o-Xylene	95-47-6	106.2	1	U	4.34		
Styrene	100-42-5	104.1	1	U	4.26		
Bromoform	75-25-2	252.8	1	U	10.3		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1	U	6.87		
2-Chlorotoluene	95-49-8	126.6	1	U	5.18		
1,3,5-Trimethylbenzene	108-67-8	120.2	1	U	4.92		
1,2,4-Trimethylbenzene	95-63-6	120.2	1	U	4.92		
1,3-Dichlorobenzene	541-73-1	147	1	U	6.01		
1,4-Dichlorobenzene	106-46-7	147	1	U	6.01		
1,2-Dichlorobenzene	95-50-1	147	1	U	6.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	1	U	7.42		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1	U	10.7		
1,3-Butadiene	106-99-0	54.09	1	U	2.21		
Naphthalene	91-20-3	128.17	1	U	5.24		
4-Ethyltoluene	622-96-8	120.2	1	U	4.92		
Hexane	110-54-3	86.17	2.8	J	9.87		
Allyl Chloride	107-05-1	76.53	1	U	3.13		
1,4-Dioxane	123-91-1	88.12	4	U	14.4		
Methyl Methacrylate	80-62-6	100.117	1	U	4.09		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENTDL

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	4	UD	19.8		
Chloromethane	74-87-3	50.49	4	UD	8.26		
Vinyl Chloride	75-01-4	62.5	1.2	UD	3.07		
Bromomethane	74-83-9	94.94	4	UD	15.5		
Chloroethane	75-00-3	64.52	4	UD	10.6		
Tetrahydrofuran	109-99-9	72.11	4	UD	11.8		
Trichlorofluoromethane	75-69-4	137.4	4	UD	22.5		
Dichlorotetrafluoroethane	76-14-2	170.9	4	UD	28.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	4	UD	30.7		
Bromoethene	593-60-2	106.9	4	UD	17.5		
tert-Butyl alcohol	75-65-0	74.12	4	UD	12.1		
Heptane	142-82-5	100.2	4	UD	16.4		
1,1-Dichloroethene	75-35-4	96.94	4	UD	15.9		
Acetone	67-64-1	58.08	5.6	JD	13.3		
Carbon Disulfide	75-15-0	76.14	4	UD	12.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	4	UD	14.4		
Methylene Chloride	75-09-2	84.94	10.8	JD	37.5		
trans-1,2-Dichloroethene	156-60-5	96.94	4	UD	15.9		
1,1-Dichloroethane	75-34-3	98.96	4	UD	16.2		
Cyclohexane	110-82-7	84.16	4	UD	13.8		
2-Butanone	78-93-3	72.11	4	UD	11.8		
Carbon Tetrachloride	56-23-5	153.8	1.2	UD	7.55		
cis-1,2-Dichloroethene	156-59-2	96.94	130	D	515		
Chloroform	67-66-3	119.4	4	UD	19.5		
1,1,1-Trichloroethane	71-55-6	133.4	1.2	UD	6.55		
2,2,4-Trimethylpentane	540-84-1	114.2	4	UD	18.7		
Benzene	71-43-2	78.11	4	UD	12.8		
1,2-Dichloroethane	107-06-2	98.96	4	UD	16.2		
Trichloroethene	79-01-6	131.4	250	D	1343		
1,2-Dichloropropane	78-87-5	113	4	UD	18.5		
Bromodichloromethane	75-27-4	163.8	4	UD	26.8		
4-Methyl-2-Pentanone	108-10-1	100.2	4	UD	16.4		
Toluene	108-88-3	92.14	69.2	D	260		
t-1,3-Dichloropropene	10061-02-6	111	4	UD	18.2		
cis-1,3-Dichloropropene	10061-01-5	111	4	UD	18.2		
1,1,2-Trichloroethane	79-00-5	133.4	4	UD	21.8		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENTDL

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	4	UD	34.1		
1,2-Dibromoethane	106-93-4	187.9	4	UD	30.7		
Tetrachloroethene	127-18-4	165.8	5700	ED	38652		
Chlorobenzene	108-90-7	112.6	4	UD	18.4		
Ethyl Benzene	100-41-4	106.2	4	UD	17.4		
m/p-Xylene	179601-23-1	106.2	8	UD	34.8		
o-Xylene	95-47-6	106.2	4	UD	17.4		
Styrene	100-42-5	104.1	4	UD	17.0		
Bromoform	75-25-2	252.8	4	UD	41.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	4	UD	27.5		
2-Chlorotoluene	95-49-8	126.6	4	UD	20.7		
1,3,5-Trimethylbenzene	108-67-8	120.2	4	UD	19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	4	UD	19.7		
1,3-Dichlorobenzene	541-73-1	147	4	UD	24.0		
1,4-Dichlorobenzene	106-46-7	147	4	UD	24.0		
1,2-Dichlorobenzene	95-50-1	147	4	UD	24.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	4	UD	29.7		
Hexachloro-1,3-Butadiene	87-68-3	260.8	4	UD	42.7		
Naphthalene	91-20-3	128.17	4	UD	21.0		
1,3-Butadiene	106-99-0	54.09	4	UD	8.85		
4-Ethyltoluene	622-96-8	120.2	4	UD	19.7		
Hexane	110-54-3	86.17	4	UD	14.1		
Allyl Chloride	107-05-1	76.53	4	UD	12.5		
1,4-Dioxane	123-91-1	88.12	16	UD	57.7		
Methyl Methacrylate	80-62-6	100.117	4	UD	16.4		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENTDL2

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02DL2

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	120	UD	593		
Chloromethane	74-87-3	50.49	120	UD	247		
Vinyl Chloride	75-01-4	62.5	36	UD	92.0		
Bromomethane	74-83-9	94.94	120	UD	465		
Chloroethane	75-00-3	64.52	120	UD	316		
Tetrahydrofuran	109-99-9	72.11	120	UD	353		
Trichlorofluoromethane	75-69-4	137.4	120	UD	674		
Dichlorotetrafluoroethane	76-14-2	170.9	120	UD	838		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	120	UD	919		
Bromoethene	593-60-2	106.9	120	UD	524		
tert-Butyl alcohol	75-65-0	74.12	120	UD	363		
Heptane	142-82-5	100.2	120	UD	491		
1,1-Dichloroethene	75-35-4	96.94	120	UD	475		
Acetone	67-64-1	58.08	120	UD	285		
Carbon Disulfide	75-15-0	76.14	120	UD	373		
Methyl tert-Butyl Ether	1634-04-4	88.15	120	UD	432		
Methylene Chloride	75-09-2	84.94	120	UD	416		
trans-1,2-Dichloroethene	156-60-5	96.94	120	UD	475		
1,1-Dichloroethane	75-34-3	98.96	120	UD	485		
Cyclohexane	110-82-7	84.16	120	UD	413		
2-Butanone	78-93-3	72.11	120	UD	353		
Carbon Tetrachloride	56-23-5	153.8	36	UD	226		
cis-1,2-Dichloroethene	156-59-2	96.94	190	JD	753		
Chloroform	67-66-3	119.4	120	UD	586		
1,1,1-Trichloroethane	71-55-6	133.4	36	UD	196		
2,2,4-Trimethylpentane	540-84-1	114.2	120	UD	560		
Benzene	71-43-2	78.11	120	UD	383		
1,2-Dichloroethane	107-06-2	98.96	120	UD	485		
Trichloroethene	79-01-6	131.4	430	D	2310		
1,2-Dichloropropane	78-87-5	113	120	UD	554		
Bromodichloromethane	75-27-4	163.8	120	UD	803		
4-Methyl-2-Pentanone	108-10-1	100.2	120	UD	491		
Toluene	108-88-3	92.14	120	UD	452		
t-1,3-Dichloropropene	10061-02-6	111	120	UD	544		
cis-1,3-Dichloropropene	10061-01-5	111	120	UD	544		
1,1,2-Trichloroethane	79-00-5	133.4	120	UD	654		

Project : Frost Street Sites / SPGL 100.03

Sampling Date : 02/26/16

Field Id Number : INFLUENTDL2

Analysis Date : 03/05/16

Laboratory Id Number : H1658-02DL2

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	120	UD	1022		
1,2-Dibromoethane	106-93-4	187.9	120	UD	922		
Tetrachloroethene	127-18-4	165.8	14600	D	99005		
Chlorobenzene	108-90-7	112.6	120	UD	552		
Ethyl Benzene	100-41-4	106.2	120	UD	521		
m/p-Xylene	179601-23-1	106.2	240	UD	1042		
o-Xylene	95-47-6	106.2	120	UD	521		
Styrene	100-42-5	104.1	120	UD	510		
Bromoform	75-25-2	252.8	120	UD	1240		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	120	UD	824		
2-Chlorotoluene	95-49-8	126.6	120	UD	621		
1,3,5-Trimethylbenzene	108-67-8	120.2	120	UD	589		
1,2,4-Trimethylbenzene	95-63-6	120.2	120	UD	589		
1,3-Dichlorobenzene	541-73-1	147	120	UD	721		
1,4-Dichlorobenzene	106-46-7	147	120	UD	721		
1,2-Dichlorobenzene	95-50-1	147	120	UD	721		
1,2,4-Trichlorobenzene	120-82-1	181.5	120	UD	890		
Hexachloro-1,3-Butadiene	87-68-3	260.8	120	UD	1280		
Naphthalene	91-20-3	128.17	120	UD	629		
1,3-Butadiene	106-99-0	54.09	120	UD	265		
4-Ethyltoluene	622-96-8	120.2	120	UD	589		
Hexane	110-54-3	86.17	120	UD	422		
Allyl Chloride	107-05-1	76.53	120	UD	375		
1,4-Dioxane	123-91-1	88.12	480	UD	1729		
Methyl Methacrylate	80-62-6	100.117	120	UD	491		

Project : Frost Street Sites / SPGL 100.03**Field Id Number :** INFLUENTDL2**Laboratory Id Number :** H1658-02DL2**Sampling Date :** 02/26/16**Analysis Date :** 03/05/16**Target Analyts :** Air Results

A

B

C

D

E

F

G

H

SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	EFFLUENT	SDG No.:	H1658
Lab Sample ID:	H1658-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027173.D	1		03/05/16 02:27	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.18	0.89	J	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.15	0.31	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.04	0.1		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.57	1.35		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.27	0.94	JB	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.1	0.29	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1.8	6.78		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	EFFLUENT	SDG No.:	H1658
Lab Sample ID:	H1658-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027173.D	1		03/05/16 02:27	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	2.7	18.3		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.69	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.4	1.44	UQ	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.9			65 - 135		99%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1328040		6.63				
540-36-3	1,4-Difluorobenzene	2910860		8.3				
3114-55-4	Chlorobenzene-d5	3067130		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENT	SDG No.:	H1658
Lab Sample ID:	H1658-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027175.D	10		03/05/16 03:49	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	U	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	1	2.07	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	1	2.95	U	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1	5.62	U	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	U	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	U	0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	4.9	11.6	J	0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	U	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	7.8	27.1	B	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1.3	5.15	J	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	U	0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	1	2.95	U	0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	170	674	E	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	1	4.88	U	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	U	1.03	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	U	0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	310	1666	E	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	100	376		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENT	SDG No.:	H1658
Lab Sample ID:	H1658-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027175.D	10		03/05/16 03:49	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	3400	23056	E	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	U	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	2	8.69	U	1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	1	4.34	U	0.74	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	U	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1	6.87	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1	4.92	U	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	U	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	2.8	9.87	J	0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	4	14.4	UQ	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135		103%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1378370		6.63				
540-36-3	1,4-Difluorobenzene	2973320		8.3				
3114-55-4	Chlorobenzene-d5	3085250		13.74				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENTDL	SDG No.:	H1658
Lab Sample ID:	H1658-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027176.D	40		03/05/16 04:29	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	4	19.8	UD	7.91	19.8	98.9	ug/m3
74-87-3	Chloromethane	4	8.26	UD	1.38	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	1.56	3.07	3.07	ug/m3
74-83-9	Bromomethane	4	15.5	UD	2.8	15.5	77.7	ug/m3
75-00-3	Chloroethane	4	10.6	UD	3.17	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	4	11.8	UD	3.54	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	4	22.5	UD	5.34	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	4	30.7	UD	4.68	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	4	28.0	UD	4.68	28.0	139	ug/m3
593-60-2	Bromoethene	4	17.5	UD	4.37	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	4	12.1	UD	5.15	12.1	60.6	ug/m3
142-82-5	Heptane	4	16.4	UD	3.89	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	4	15.9	UD	2.66	15.9	79.3	ug/m3
67-64-1	Acetone	5.6	13.3	JD	1.14	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	4	12.5	UD	2.96	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4	14.4	UD	2.2	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	10.8	37.5	JDB	2.33	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	4	15.9	UD	2.66	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	4	16.2	UD	1.94	16.2	81.0	ug/m3
110-82-7	Cyclohexane	4	13.8	UD	3.27	13.8	68.8	ug/m3
78-93-3	2-Butanone	4	11.8	UD	2.57	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	3.84	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	130	515	D	2.85	15.9	79.3	ug/m3
67-66-3	Chloroform	4	19.5	UD	2.98	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	2.62	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4	18.7	UD	4.06	18.7	93.4	ug/m3
71-43-2	Benzene	4	12.8	UD	2.14	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	4	16.2	UD	2.47	16.2	81.0	ug/m3
79-01-6	Trichloroethene	250	1343	D	3.28	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4	18.5	UD	15.7	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	4	26.8	UD	4.49	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	4	16.4	UD	3.57	16.4	82.0	ug/m3
108-88-3	Toluene	69.2	260	D	1.81	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	4	18.2	UD	4.31	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	4	18.2	UD	2.77	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	4	21.8	UD	4.75	21.8	109	ug/m3
124-48-1	Dibromochloromethane	4	34.1	UD	4.09	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	4	30.7	UD	4.69	30.7	153	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENTDL	SDG No.:	H1658
Lab Sample ID:	H1658-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027176.D	40		03/05/16 04:29	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	5700	38652	ED	4.54	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	4	18.4	UD	2.81	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	4	17.4	UD	2.91	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	8	34.8	UD	5.21	34.8	173	ug/m3
95-47-6	o-Xylene	4	17.4	UD	2.91	17.4	86.9	ug/m3
100-42-5	Styrene	4	17.0	UD	2.04	17.0	85.2	ug/m3
75-25-2	Bromoform	4	41.4	UD	4.96	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	4	27.5	UD	4.6	27.5	137	ug/m3
95-49-8	2-Chlorotoluene	4	20.7	UD	3.16	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4	19.7	UD	4.87	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4	19.7	UD	4.87	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	4	24.0	UD	4.03	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	4	24.0	UD	7.21	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	4	24.0	UD	5.95	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4	29.7	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	4	42.7	UD	12.8	42.7	213	ug/m3
106-99-0	1,3-Butadiene	4	8.85	UD	1.92	8.85	44.2	ug/m3
91-20-3	Naphthalene	4	21.0	UD	8.91	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	4	19.7	UD	3	19.7	98.3	ug/m3
110-54-3	Hexane	4	14.1	UD	2.15	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	4	12.5	UD	4.38	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	16	57.7	UDQ	14.1	57.7	72.1	ug/m3
80-62-6	Methyl Methacrylate	4	16.4	UD	2.74	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1316660		6.63				
540-36-3	1,4-Difluorobenzene	2841260		8.3				
3114-55-4	Chlorobenzene-d5	3035490		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENTDL2	SDG No.:	H1658
Lab Sample ID:	H1658-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027177.D	1200		03/05/16 05:09	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	120	593	UD	237	593	2966	ug/m3
74-87-3	Chloromethane	120	247	UD	41.7	247	1239	ug/m3
75-01-4	Vinyl Chloride	36	92.0	UD	47.0	92.0	92.0	ug/m3
74-83-9	Bromomethane	120	465	UD	84.3	465	2329	ug/m3
75-00-3	Chloroethane	120	316	UD	97.1	316	1583	ug/m3
109-99-9	Tetrahydrofuran	120	353	UD	105	353	1769	ug/m3
75-69-4	Trichlorofluoromethane	120	674	UD	160	674	3371	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	120	919	UD	141	919	4598	ug/m3
76-14-2	Dichlorotetrafluoroethane	120	838	UD	141	838	4193	ug/m3
593-60-2	Bromoethene	120	524	UD	134	524	2623	ug/m3
75-65-0	tert-Butyl alcohol	120	363	UD	157	363	1818	ug/m3
142-82-5	Heptane	120	491	UD	117	491	2458	ug/m3
75-35-4	1,1-Dichloroethene	120	475	UD	80.1	475	2378	ug/m3
67-64-1	Acetone	120	285	UD	34.0	285	1425	ug/m3
75-15-0	Carbon Disulfide	120	373	UD	89.1	373	1868	ug/m3
1634-04-4	Methyl tert-Butyl Ether	120	432	UD	66.3	432	2163	ug/m3
75-09-2	Methylene Chloride	120	416	UD	70.2	416	2084	ug/m3
156-60-5	trans-1,2-Dichloroethene	120	475	UD	80.1	475	2378	ug/m3
75-34-3	1,1-Dichloroethane	120	485	UD	57.9	485	2428	ug/m3
110-82-7	Cyclohexane	120	413	UD	98.4	413	2065	ug/m3
78-93-3	2-Butanone	120	353	UD	76.7	353	1769	ug/m3
56-23-5	Carbon Tetrachloride	36	226	UD	115	226	226	ug/m3
156-59-2	cis-1,2-Dichloroethene	190	753	JD	86.0	475	2378	ug/m3
67-66-3	Chloroform	120	586	UD	89.9	586	2930	ug/m3
71-55-6	1,1,1-Trichloroethane	36	196	UD	78.0	196	196	ug/m3
540-84-1	2,2,4-Trimethylpentane	120	560	UD	121	560	2802	ug/m3
71-43-2	Benzene	120	383	UD	64.5	383	1916	ug/m3
107-06-2	1,2-Dichloroethane	120	485	UD	74.5	485	2428	ug/m3
79-01-6	Trichloroethene	430	2310	D	98.9	193	193	ug/m3
78-87-5	1,2-Dichloropropane	120	554	UD	462	554	2773	ug/m3
75-27-4	Bromodichloromethane	120	803	UD	135	803	4019	ug/m3
108-10-1	4-Methyl-2-Pentanone	120	491	UD	106	491	2458	ug/m3
108-88-3	Toluene	120	452	UD	53.9	452	2261	ug/m3
10061-02-6	t-1,3-Dichloropropene	120	544	UD	129	544	2723	ug/m3
10061-01-5	cis-1,3-Dichloropropene	120	544	UD	83.5	544	2723	ug/m3
79-00-5	1,1,2-Trichloroethane	120	654	UD	141	654	3273	ug/m3
124-48-1	Dibromochloromethane	120	1022	UD	121	1022	5111	ug/m3
106-93-4	1,2-Dibromoethane	120	922	UD	141	922	4611	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	02/26/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	03/02/16
Client Sample ID:	INFLUENTDL2	SDG No.:	H1658
Lab Sample ID:	H1658-02DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027177.D	1200		03/05/16 05:09	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	14600	99005	D	136	244	244	ug/m3
108-90-7	Chlorobenzene	120	552	UD	84.7	552	2763	ug/m3
100-41-4	Ethyl Benzene	120	521	UD	87.7	521	2606	ug/m3
179601-23-1	m/p-Xylene	240	1042	UD	159	1042	5212	ug/m3
95-47-6	o-Xylene	120	521	UD	87.7	521	2606	ug/m3
100-42-5	Styrene	120	510	UD	60.9	510	2554	ug/m3
75-25-2	Bromoform	120	1240	UD	147	1240	6203	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	120	824	UD	138	824	4120	ug/m3
95-49-8	2-Chlorotoluene	120	621	UD	95.3	621	3106	ug/m3
108-67-8	1,3,5-Trimethylbenzene	120	589	UD	145	589	2949	ug/m3
95-63-6	1,2,4-Trimethylbenzene	120	589	UD	145	589	2949	ug/m3
541-73-1	1,3-Dichlorobenzene	120	721	UD	121	721	3607	ug/m3
106-46-7	1,4-Dichlorobenzene	120	721	UD	215	721	3607	ug/m3
95-50-1	1,2-Dichlorobenzene	120	721	UD	177	721	3607	ug/m3
120-82-1	1,2,4-Trichlorobenzene	120	890	UD	356	890	4453	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	120	1280	UD	392	1280	6400	ug/m3
106-99-0	1,3-Butadiene	120	265	UD	57.5	265	1327	ug/m3
91-20-3	Naphthalene	120	629	UD	273	629	3145	ug/m3
622-96-8	4-Ethyltoluene	120	589	UD	90.5	589	2949	ug/m3
110-54-3	Hexane	120	422	UD	64.8	422	2114	ug/m3
107-05-1	Allyl Chloride	120	375	UD	131	375	1878	ug/m3
123-91-1	1,4-Dioxane	480	1729	UDQ	432	1729	2162	ug/m3
80-62-6	Methyl Methacrylate	120	491	UD	82.7	491	2456	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1293070		6.63				
540-36-3	1,4-Difluorobenzene	2828200		8.3				
3114-55-4	Chlorobenzene-d5	2987710		13.71				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: H1658

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
H1658-01	EFFLUENT	1-Bromo-4-Fluorobenzene	10	9.87	99	65	135
H1658-02	INFLUENT	1-Bromo-4-Fluorobenzene	10	10.34	103	65	135
H1658-02DL	INFLUENTDL	1-Bromo-4-Fluorobenzene	10	10.01	100	65	135
H1658-02DL2	INFLUENTDL2	1-Bromo-4-Fluorobenzene	10	10.08	101	65	135
H1678-01DUP	MP1-ASE004-0316DUP	1-Bromo-4-Fluorobenzene	10	10.53	105	65	135
VL0304ABL01	VL0304ABL01	1-Bromo-4-Fluorobenzene	10	10.21	102	65	135
VL0304ABS02	VL0304ABS02	1-Bromo-4-Fluorobenzene	10	9.49	95	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H1658

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL027158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0304ABS02	Dichlorodifluoromethane	10	10.8	ppbv	108			70	130	
	Chloromethane	10	10.7	ppbv	107			70	130	
	Vinyl Chloride	10	10.8	ppbv	108			70	130	
	Bromomethane	10	10.7	ppbv	107			70	130	
	Chloroethane	10	10.8	ppbv	108			70	130	
	Tetrahydrofuran	10	12.2	ppbv	122			70	130	
	Trichlorofluoromethane	10	9.9	ppbv	99			70	130	
	1,1,2-Trichlorotrifluoroethane	10	10.1	ppbv	101			70	130	
	Dichlorotetrafluoroethane	10	10.1	ppbv	101			70	130	
	Bromoethene	10	11	ppbv	110			70	130	
	tert-Butyl Alcohol	10	11.3	ppbv	113			70	130	
	Heptane	10	11.4	ppbv	114			70	130	
	1,1-Dichloroethene	10	10.8	ppbv	108			70	130	
	Acetone	10	8.9	ppbv	89			70	130	
	Carbon disulfide	10	10.9	ppbv	109			70	130	
	Methyl tert-butyl Ether	10	12.4	ppbv	124			70	130	
	Methylene Chloride	10	10.2	ppbv	102			70	130	
	trans-1,2-Dichloroethene	10	11.4	ppbv	114			70	130	
	1,1-Dichloroethane	10	10.9	ppbv	109			70	130	
	Cyclohexane	10	12.1	ppbv	121			70	130	
	2-Butanone	10	10.6	ppbv	106			70	130	
	Carbon Tetrachloride	10	10.8	ppbv	108			70	130	
	cis-1,2-Dichloroethene	10	11.9	ppbv	119			70	130	
	Chloroform	10	10.7	ppbv	107			70	130	
	1,1,1-Trichloroethane	10	11.3	ppbv	113			70	130	
	2,2,4-Trimethylpentane	10	11.1	ppbv	111			70	130	
	Benzene	10	11.5	ppbv	115			70	130	
	1,2-Dichloroethane	10	10.4	ppbv	104			70	130	
	Trichloroethene	10	11.2	ppbv	112			70	130	
	1,2-Dichloropropane	10	11	ppbv	110			70	130	
	Bromodichloromethane	10	11.1	ppbv	111			70	130	
	4-Methyl-2-Pentanone	10	12	ppbv	120			70	130	
	Toluene	10	11.4	ppbv	114			70	130	
	t-1,3-Dichloropropene	10	12.9	ppbv	129			70	130	
	cis-1,3-Dichloropropene	10	12.6	ppbv	126			70	130	
	1,1,2-Trichloroethane	10	10.4	ppbv	104			70	130	
	Dibromochloromethane	10	11	ppbv	110			70	130	
	1,2-Dibromoethane	10	10.7	ppbv	107			70	130	
	Tetrachloroethene	10	11.1	ppbv	111			70	130	
	Chlorobenzene	10	10.2	ppbv	102			70	130	
	Ethyl Benzene	10	11.6	ppbv	116			70	130	
	m/p-Xylene	20	21.8	ppbv	109			70	130	
	o-Xylene	10	10.7	ppbv	107			70	130	
	Styrene	10	13	ppbv	130			70	130	
	Bromoform	10	12	ppbv	120			70	130	
	1,1,2,2-Tetrachloroethane	10	10.4	ppbv	104			70	130	
	2-Chlorotoluene	10	11.7	ppbv	117			70	130	
	1,3,5-Trimethylbenzene	10	11.3	ppbv	113			70	130	
	1,2,4-Trimethylbenzene	10	10.9	ppbv	109			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: H1658
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL027158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0304ABS02	1,3-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,4-Dichlorobenzene	10	10.9	ppbv	109			70	130	
	1,2-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,2,4-Trichlorobenzene	10	11.6	ppbv	116			70	130	
	Hexachloro-1,3-butadiene	10	10.9	ppbv	109			70	130	
	Naphthalene	10	11.7	ppbv	117			70	130	
	1,3-Butadiene	10	10.5	ppbv	105			70	130	
	4-Ethyltoluene	10	11.7	ppbv	117			70	130	
	Hexane	10	11.4	ppbv	114			70	130	
	Allyl Chloride	10	11.1	ppbv	111			70	130	
	1,4-Dioxane	10	14.6	ppbv	146		*	70	130	
	Methyl methacrylate	10	12.3	ppbv	123			70	130	

Duplicate Sample Summary

Lab Sample Id :	H1678-01DUP	H1678-01
Client Id :	MP1-ASE004-0316DUP	MP1-ASE004-0316
DF :	1	1
Datafile :	VL027167.D	VL027165.D
Anal Date & Time :	03/04/2016 22:24	03/04/2016 21:01

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	81.2	83.6	2.9
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0.1	0.1	0
1,1-Dichloroethane	140	150	6.9
1,1-Dichloroethene	63.7	63.6	0.16
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.62	0.61	1.6
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	14.4	14.6	1.4
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0.19	0.19	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	2.2	2.1	4.7
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.17	0.16	6.1
4-Methyl-2-Pentanone	0	0	0
Acetone	4.4	4.3	2.3
Allyl Chloride	0	0	0
Benzene	0.2	0.19	5.1
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0.47	0.44	6.6

Duplicate Sample Summary

Lab Sample Id :	H1678-01DUP	H1678-01
Client Id :	MP1-ASE004-0316DUP	MP1-ASE004-0316
DF :	1	1
Datafile :	VL027167.D	VL027165.D
Anal Date & Time :	03/04/2016 22:24	03/04/2016 21:01

Parameter	Result	Result	RPD
Carbon Tetrachloride	0.09	0.08	11.8
Chlorobenzene	0	0	0
Chloroethane	8.5	8.5	0
Chloroform	0	0	0
Chloromethane	0.57	0.54	5.4
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.55	0.28	65.1 *
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.18	0.16	11.8
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.37	0.33	11.4
m/p-Xylene	0.91	0.83	9.2
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.3	2.2	4.4
Naphthalene	0.25	0.31	21.4 *
o-Xylene	0.29	0.28	3.5
Styrene	0.1	0.11	9.5
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0.78	1.4	56.9 *
Tetrachloroethene	0	0	0
Tetrahydrofuran	5.1	4.9	4
Toluene	0.38	0.36	5.4
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0.14	0.14	0
Trichlorofluoromethane	0.34	0.35	2.9
Vinyl Chloride	39.5	39.3	0.51

Duplicate Sample Summary

Lab Sample Id :

H1678-01DUP

H1678-01

Client Id :

MP1-ASE004-0316DUP

MP1-ASE004-0316

DF :

1

1

Datafile :

VL027167.D

VL027165.D

Anal Date & Time :

03/04/2016

22:24

03/04/2016

21:01

Parameter	Result	Result	RPD

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0304ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: H1658

SAS No.: H1658 SDG NO.: H1658

Lab File ID: VL027156.D

Lab Sample ID: VL0304ABL01

Date Analyzed: 03/04/2016

Time Analyzed: 12:55

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0304ABS02	VL0304ABS02	VL027158.D	03/04/2016
MP1-ASE004-0316DUP	H1678-01DUP	VL027167.D	03/04/2016
EFFLUENT	H1658-01	VL027173.D	03/05/2016
INFLUENT	H1658-02	VL027175.D	03/05/2016
INFLUENTDL	H1658-02DL	VL027176.D	03/05/2016
INFLUENTDL2	H1658-02DL2	VL027177.D	03/05/2016

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>ENVI27</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>H1658</u>
Lab File ID:	<u>VL027125.D</u>	SAS No.:	<u>H1658</u>
Instrument ID:	<u>MSVOA_L</u>	SDG NO.:	<u>H1658</u>
GC Column:	<u>RTX-1</u>	BFB Injection Date:	<u>03/03/2016</u>
ID:	<u>0.32</u> (mm)	BFB Injection Time:	<u>11:07</u>
		Heated Purge:	<u>Y/N</u>
			<u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.3
75	30.0 - 66.0% of mass 95	55.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.9) 1
174	50.0 - 120.0% of mass 95	60.3
175	4.0 - 9.0% of mass 174	4.4 (7.2) 1
176	93.0 - 101.0% of mass 174	58.1 (96.4) 1
177	5.0 - 9.0% of mass 176	3.7 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL027126.D	03/03/2016	11:46
VSTDICCC002	VSTDICCC002	VL027127.D	03/03/2016	12:28
VSTDICCC001	VSTDICCC001	VL027128.D	03/03/2016	13:06
VSTDICCC0.5	VSTDICCC0.5	VL027129.D	03/03/2016	13:44
VSTDICCC0.1	VSTDICCC0.1	VL027130.D	03/03/2016	14:21
VSTDICCC0.03	VSTDICCC0.03	VL027131.D	03/03/2016	14:59
VSTDICCC015	VSTDICCC015	VL027132.D	03/03/2016	15:41

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG NO.: H1658
Lab File ID: VL027154.D BFB Injection Date: 03/04/2016
Instrument ID: MSVOA_L BFB Injection Time: 10:44
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.2
75	30.0 - 66.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.9) 1
174	50.0 - 120.0% of mass 95	60.4
175	4.0 - 9.0% of mass 174	4.5 (7.4) 1
176	93.0 - 101.0% of mass 174	58 (96.1) 1
177	5.0 - 9.0% of mass 176	3.8 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL027155.D	03/04/2016	11:23
VL0304ABL01	VL0304ABL01	VL027156.D	03/04/2016	12:55
VL0304ABS02	VL0304ABS02	VL027158.D	03/04/2016	16:13
MP1-ASE004-0316DUP	H1678-01DUP	VL027167.D	03/04/2016	22:24
EFFLUENT	H1658-01	VL027173.D	03/05/2016	02:27
INFLUENT	H1658-02	VL027175.D	03/05/2016	03:49
INFLUENTDL	H1658-02DL	VL027176.D	03/05/2016	04:29
INFLUENTDL2	H1658-02DL2	VL027177.D	03/05/2016	05:09

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG NO.: H1658
 Lab File ID: VL027155.D Date Analyzed: 03/04/2016
 Instrument ID: MSVOA_L Time Analyzed: 11:23
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1647540	6.64	3881120	8.32	3880490	13.73
UPPER LIMIT	2306550	6.97	5433560	8.65	5432690	14.06
LOWER LIMIT	988523	6.31	2328670	7.99	2328290	13.40
EPA SAMPLE NO.						
EFFLUENT	1328044	6.63	2910864	8.30	3067132	13.72
INFLUENT	1378371	6.63	2973324	8.30	3085253	13.74
INFLUENTDL	1316658	6.63	2841260	8.30	3035490	13.72
INFLUENTDL2	1293069	6.63	2828202	8.30	2987706	13.71
MP1-ASE004-0316DUP	1489394	6.67	3209896	8.33	2578898	13.73
VL0304ABL01	1597563	6.65	3582436	8.32	3693379	13.73
VL0304ABS02	1649472	6.65	3969453	8.33	4155021	13.74

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0304ABL01	SDG No.:	H1658
Lab Sample ID:	VL0304ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027156.D	1		03/04/16 12:55	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.1	0.49	U	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.1	0.21	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.1	0.24	U	0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.11	0.38	J	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.1	0.29	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.1	0.32	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.1	0.38	U	0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0304ABL01	SDG No.:	H1658
Lab Sample ID:	VL0304ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027156.D	1		03/04/16 12:55	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.1	0.43	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.1	0.69	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.4	1.44	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1597560		6.65				
540-36-3	1,4-Difluorobenzene	3582440		8.32				
3114-55-4	Chlorobenzene-d5	3693380		13.73				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0304ABS02	SDG No.:	H1658
Lab Sample ID:	VL0304ABS02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027158.D	1		03/04/16 16:13	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10.8	53.4		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	10.7	22.1		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	10.8	27.6		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	10.7	41.6		0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	10.8	28.5		0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	12.2	36.0		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.9	55.6		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.1	77.4		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.1	70.6		0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	11	48.1		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	11.3	34.3		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	11.4	46.7		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.8	42.8		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	8.9	21.1		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.9	33.9		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.4	44.7		0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	10.2	35.4		0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	11.4	45.2		0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.9	44.1		0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	12.1	41.6		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	10.6	31.3		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.8	67.9		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	11.9	47.2		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	10.7	52.2		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	11.3	61.6		0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.1	51.8		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	11.5	36.7		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	10.4	42.1		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	11.2	60.2		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	11	50.8		0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	11.1	74.4		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	12	49.2		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	11.4	43.0		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	12.9	58.6		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	12.6	57.2		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.4	56.7		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	11	93.7		0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	10.7	82.2		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0304ABS02	SDG No.:	H1658
Lab Sample ID:	VL0304ABS02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL027158.D	1		03/04/16 16:13	VL030416

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	11.1	75.3		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	10.2	47.0		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	11.6	50.4		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	21.8	94.7		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	10.7	46.5		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	13	55.4		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	12	124		0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.4	71.4		0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	11.7	60.6		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.3	55.6		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.9	53.6		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.7	64.3		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.9	65.5		0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.7	64.3		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	11.6	86.1		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	10.9	116		0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	10.5	23.2		0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	11.7	61.3		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	11.7	57.5		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	11.4	40.2		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	11.1	34.7		0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	14.6	52.6		0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	12.3	50.4		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.5			65 - 135		95%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1649470		6.65				
540-36-3	1,4-Difluorobenzene	3969450		8.33				
3114-55-4	Chlorobenzene-d5	4155020		13.74				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG No.: H1658
 Instrument ID: MSVOA_L Calibration Date(s): 03/03/2016 03/03/2016
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 15:41
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL027126.D		RRF002 = VL027127.D		RRF001 = VL027128.D		RRF0.5 = VL027129.D		RRF0.1 = VL027130.D		RRF.03 = VL027131.D	
COMPOUND		RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD				
Dichlorodifluoromethane		2.009	2.046	1.975	2.060			1.897	15				
Chloromethane		0.650	0.675	0.676	0.646			0.654	3.3				
Vinyl Chloride		0.668	0.682	0.674	0.674	0.639	0.721	0.672	4				
Bromomethane		0.466	0.478	0.476	0.465			0.468	1.9				
Chloroethane		0.295	0.302	0.295	0.296			0.294	2.3				
Tetrahydrofuran		0.365	0.336	0.293	0.243			0.320	16.2				
Trichlorofluoromethane		1.996	2.056	2.020	2.102			2.022	3.1				
1,1,2-Trichlorotrifluoroethane		1.334	1.350	1.334	1.412			1.339	3.9				
Dichlorotetrafluoroethane		1.657	1.729	1.760	1.758			1.695	4.7				
Bromoethene		0.516	0.517	0.504	0.464			0.499	4.3				
tert-Butyl alcohol		1.024	0.915	0.924	0.707			0.920	14.2				
Heptane		1.664	1.588	1.522	1.317			1.549	9.2				
1,1-Dichloroethene		0.598	0.595	0.588	0.561			0.583	2.7				
Acetone		1.146	1.493	1.483	1.499			1.347	14.6				
Carbon Disulfide		1.716	1.685	1.619	1.558			1.648	3.7				
Methyl tert-Butyl Ether		1.956	1.845	1.701	1.475			1.771	10.7				
Methylene Chloride		0.563	0.583	0.606	0.626			0.582	6.2				
trans-1,2-Dichloroethene		0.672	0.649	0.615	0.595			0.637	4.9				
1,1-Dichloroethane		1.501	1.516	1.488	1.448			1.483	1.9				
Cyclohexane		1.040	0.965	0.901	0.791			0.942	10.6				
2-Butanone		0.630	0.653	0.613	0.580			0.622	4.4				
Carbon Tetrachloride		0.739	0.690	0.663	0.652	0.622	0.774	0.697	7.9				
cis-1,2-Dichloroethene		1.085	1.014	0.945	0.825			0.989	10.8				
Chloroform		1.711	1.685	1.648	1.691			1.685	1.4				
1,1,1-Trichloroethane		1.692	1.616	1.562	1.456	1.431	1.765	1.597	7.7				
2,2,4-Trimethylpentane		1.750	1.716	1.605	1.402			1.625	8.4				
Benzene		1.005	0.975	0.908	0.817			0.938	8.2				
1,2-Dichloroethane		0.595	0.579	0.573	0.548			0.577	3.2				
Trichloroethene		0.398	0.388	0.373	0.343	0.327	0.356	0.369	7.6				
1,2-Dichloropropane		0.377	0.370	0.355	0.342			0.363	4				
Bromodichloromethane		0.788	0.741	0.691	0.669			0.736	7.5				
4-Methyl-2-Pentanone		0.825	0.724	0.664	0.539			0.715	16.8				
Toluene		1.271	1.210	1.067	0.884			1.137	14.3				

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG No.: H1658
 Instrument ID: MSVOA_L Calibration Date(s): 03/03/2016 03/03/2016
 Heated Purge: (Y/N) N Calibration Time(s): 11:46 15:41
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL027126.D		RRF002 = VL027127.D		RRF001 = VL027128.D		RRF0.5 = VL027129.D		RRF0.1 = VL027130.D		RRF.03 = VL027131.D	
COMPOUND		RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD				
t-1,3-Dichloropropene		0.549	0.454	0.385	0.314			0.453	23.6				
cis-1,3-Dichloropropene		0.663	0.551	0.469	0.395			0.549	21.7				
1,1,2-Trichloroethane		0.427	0.425	0.412	0.405			0.420	2.5				
Dibromochloromethane		0.680	0.634	0.579	0.514			0.622	12.4				
1,2-Dibromoethane		0.651	0.633	0.587	0.546			0.615	7.8				
Tetrachloroethene		0.391	0.375	0.347	0.327	0.312	0.356	0.357	8.7				
Chlorobenzene		1.028	0.949	0.966	0.978			0.976	3.1				
Ethyl Benzene		1.757	1.537	1.406	1.156			1.493	15.2				
m/p-Xylene		1.411	1.281	1.221	1.066			1.254	10				
o-Xylene		1.493	1.349	1.316	1.170			1.345	8.8				
Styrene		0.625	0.487	0.405	0.285			0.481	29.5				
Bromoform		0.521	0.443	0.389	0.353			0.448	17.7				
1,1,2,2-Tetrachloroethane		1.022	0.933	0.966	0.958	0.868	0.985	0.956	5				
2-Chlorotoluene		1.383	1.217	1.097	0.930			1.189	15.2				
1,3,5-Trimethylbenzene		1.486	1.273	1.184	0.992			1.268	15.2				
1,2,4-Trimethylbenzene		1.556	1.380	1.303	1.157			1.374	11.2				
1,3-Dichlorobenzene		0.928	0.832	0.806	0.764			0.844	7.8				
1,4-Dichlorobenzene		0.937	0.830	0.788	0.728			0.837	10.1				
1,2-Dichlorobenzene		0.897	0.806	0.779	0.744			0.820	7.8				
1,2,4-Trichlorobenzene		0.341	0.324	0.288	0.236			0.311	16.4				
Hexachloro-1,3-Butadiene		0.244	0.228	0.214	0.198			0.229	10.9				
1,3-Butadiene		0.586	0.623	0.620	0.616			0.603	3.8				
Naphthalene		0.755	0.723	0.618	0.450			0.670	21.1				
4-Ethyltoluene		1.559	1.319	1.191	0.959			1.302	18.3				
1-Bromo-4-Fluorobenzene		0.724	0.723	0.736	0.742	0.752	0.748	0.729	3.5				
Hexane		1.235	1.212	1.141	1.049			1.167	6.4				
Allyl Chloride		0.923	0.892	0.852	0.848			0.879	3.5				
1,4-Dioxane		90.097	80.092	49.540	42.137			61.560	35.6				
Methyl Methacrylate		0.382	0.342	0.294	0.236			0.328	19.4				

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\

Method File : VL030316AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Mar 03 16:23:59 2016

Last Update : Thu Mar 03 16:23:59 2016

Response Via : Initial Calibration

Calibration Files

0.03=VL027131.D 0.1 =VL027130.D 0.5 =VL027129.D 1 =VL027128.D 2 =VL027127.D 10 =VL027126.D 15 =VL027132.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		2.060	1.975	2.046	2.009	1.393	1.897	14.95	
3)	Chlorodifluoro...		1.539	1.496	1.486	1.184	1.129	1.367	14.19	
4)	Chloromethane		0.646	0.676	0.675	0.650	0.624	0.654	3.32	
5) T	Vinyl Chloride	0.721	0.639	0.674	0.674	0.682	0.668	0.644	0.672	4.05
6) T	Bromomethane		0.465	0.476	0.478	0.466	0.455	0.468	1.94	
7)	Chloroethane		0.296	0.295	0.302	0.295	0.283	0.294	2.30	
8) T	Dichlorotetra...		1.758	1.760	1.729	1.657	1.573	1.695	4.73	
9) T	Propene		0.465	0.506	0.520	0.528	0.495	0.503	4.88	
10) T	Heptane		1.317	1.522	1.588	1.664	1.656	1.549	9.19	
11) T	Trichlorofluor...		2.102	2.020	2.056	1.996	1.938	2.022	3.05	
12) T	1,1,2-Trichlor...		1.412	1.334	1.350	1.334	1.265	1.339	3.92	
13)	Ethanol		0.075	0.086	0.095	0.084	0.047	0.077	23.49	
14) T	Bromoethene		0.464	0.504	0.517	0.516	0.494	0.499	4.34	
15) T	Acetone		1.499	1.483	1.493	1.146	1.118	1.347	14.65	
16) T	1,3-Butadiene		0.616	0.620	0.623	0.586	0.571	0.603	3.81	
17)	tert-Butyl alc...		0.707	0.924	0.915	1.024	1.028	0.920	14.16	
18) T	1,1-Dichloroet...		0.561	0.588	0.595	0.598	0.572	0.583	2.70	
19) T	Isopropyl Alcohol		0.484	0.549	0.559	0.609	0.508	0.542	8.96	
20) T	Methylene Chlo...		0.626	0.606	0.583	0.563	0.533	0.582	6.23	
21) T	Allyl Chloride		0.848	0.852	0.892	0.923	0.878	0.879	3.52	
22) T	trans-1,2-Dich...		0.595	0.615	0.649	0.672	0.653	0.637	4.92	
23) T	Vinyl Acetate		1.736	1.894	2.232	2.281	2.156	2.060	11.38	
24) T	1,1-Dichloroet...		1.448	1.488	1.516	1.501	1.461	1.483	1.91	
25) T	Ethyl Acetate		1.569	2.315	2.415	2.464	2.382	2.229	16.73	
26) T	Hexane		1.049	1.141	1.212	1.235	1.200	1.167	6.41	
27) T	Carbon Disulfide		1.558	1.619	1.685	1.716	1.662	1.648	3.73	
28) T	Methyl tert-Bu...		1.475	1.700	1.845	1.956	1.881	1.771	10.72	
29) T	Chloroform		1.691	1.648	1.685	1.711	1.692	1.685	1.37	
30) T	Cyclohexane		0.791	0.901	0.965	1.040	1.014	0.942	10.58	
31) T	cis-1,2-Dichlo...		0.825	0.945	1.014	1.085	1.074	0.989	10.83	
32) T	1,1,1-Trichlor...	1.765	1.431	1.456	1.562	1.616	1.692	1.660	1.597	7.69
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.580	0.613	0.653	0.630	0.635	0.622	4.43	
35) T	Carbon Tetrach...	0.774	0.622	0.652	0.663	0.690	0.739	0.737	0.697	7.88
36) T	Benzene		0.817	0.908	0.975	1.005	0.984	0.938	8.16	
37) T	1,2-Dichloroet...		0.548	0.573	0.579	0.595	0.591	0.577	3.23	

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL030316AIR.M

38)	T	Trichloroethene	0.356	0.327	0.343	0.373	0.388	0.398	0.400	0.369	7.62
39)	T	1,2-Dichloropr...			0.342	0.355	0.370	0.377	0.371	0.363	3.98
40)	T	1,4-Dioxane			0.042	0.050	0.080	0.090	0.046	0.062	35.62
41)	T	Tetrahydrofuran			0.243	0.293	0.336	0.365	0.362	0.320	16.25
42)	T	Bromodichlorom...			0.669	0.691	0.741	0.788	0.789	0.736	7.47
43)		Methyl Methacr...			0.236	0.294	0.342	0.382	0.387	0.328	19.42
44)	T	2,2,4-Trimethy...			1.402	1.605	1.716	1.750	1.650	1.625	8.40
45)	T	t-1,3-Dichloro...			0.314	0.385	0.454	0.549	0.564	0.453	23.56
46)	T	cis-1,3-Dichlo...			0.395	0.469	0.551	0.663	0.667	0.549	21.73
47)	T	1,1,2-Trichlor...			0.405	0.412	0.425	0.427	0.429	0.420	2.51
48)	T	Dibromochlorom...			0.514	0.579	0.634	0.680	0.706	0.622	12.44
49)	T	Bromoform			0.353	0.389	0.443	0.521	0.533	0.448	17.67
50)	T	4-Methyl-2-Pen...			0.539	0.664	0.724	0.825	0.823	0.715	16.78
51)	T	2-Hexanone			0.391	0.522	0.651	0.741	0.754	0.612	25.20
52)	T	Tetrachloroethene	0.356	0.312	0.327	0.347	0.375	0.391	0.393	0.357	8.71
53)	T	Toluene			0.884	1.067	1.210	1.271	1.252	1.137	14.28
54)	T	1,2-Dibromoethane			0.546	0.587	0.633	0.651	0.659	0.615	7.80
55)	I	Chlorobenzene-d5	-----ISTD-----								
56)		1,1,1,2-Tetrac...			0.435	0.443	0.448	0.501	0.473	0.460	5.86
57)	T	Chlorobenzene			0.978	0.966	0.949	1.028	0.961	0.976	3.13
58)	T	Ethyl Benzene			1.156	1.406	1.537	1.757	1.610	1.493	15.22
59)	T	m/p-Xylene			1.066	1.221	1.281	1.411	1.293	1.254	10.04
60)	T	o-Xylene			1.170	1.316	1.349	1.493	1.399	1.345	8.83
61)	T	Styrene			0.285	0.405	0.487	0.625	0.605	0.481	29.47
62)		Isopropylbenzene			1.399	1.589	1.655	1.873	1.738	1.651	10.68
63)	T	1,1,2,2-Tetrac...	0.985	0.868	0.958	0.966	0.933	1.022	0.959	0.956	5.00
64)		n-propylbenzene			0.356	0.420	0.428	0.495	0.475	0.435	12.42
65)		tert-Butylbenzene			1.190	1.391	1.469	1.670	1.592	1.462	12.74
66)	T	Benzyl Chloride			0.312	0.384	0.472	0.679	0.673	0.504	33.08
67)		sec-Butylbenzene			1.695	1.940	2.053	2.294	2.106	2.018	10.95
68)	S	1-Bromo-4-Fluo...	0.748	0.752	0.742	0.736	0.723	0.724	0.676	0.729	3.51
69)		p-Isopropyltol...			1.219	1.489	1.631	1.865	1.755	1.592	15.76
70)		n-Butylbenzene			1.205	1.511	1.618	1.840	1.738	1.582	15.46
71)		2-Chlorotoluene			0.930	1.097	1.217	1.383	1.319	1.189	15.22
72)	T	4-Ethyltoluene			0.959	1.191	1.319	1.559	1.481	1.302	18.34
73)	T	1,3,5-Trimethy...			0.992	1.184	1.273	1.486	1.404	1.268	15.25
74)	T	1,2,4-Trimethy...			1.157	1.303	1.380	1.556	1.476	1.374	11.25
75)	T	1,3-Dichlorobe...			0.764	0.806	0.832	0.928	0.890	0.844	7.78
76)	T	1,4-Dichlorobe...			0.728	0.788	0.830	0.937	0.900	0.837	10.05
77)	T	1,2-Dichlorobe...			0.744	0.779	0.806	0.897	0.874	0.820	7.81
78)	T	Hexachloro-1,3...			0.198	0.214	0.228	0.244	0.262	0.229	10.94
79)	T	Naphthalene			0.450	0.618	0.723	0.755	0.805	0.670	21.06
80)	T	Naphthalene,2-...			0.207	0.212	0.233	0.176	0.156	0.197	15.42
81)	T	1,2,4-Trichlor...			0.236	0.288	0.324	0.341	0.368	0.311	16.45

(#) = Out of Range

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG No.: H1658
 Instrument ID: MSVOA_L Calibration Date/Time: 03/04/2016 11:23
 Lab File ID: VL027155.D Init. Calib. Date(s): 03/03/2016 03/03/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 15:41
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.897	1.971		3.9	30
Chloromethane	0.654	0.653		-0.23	30
Vinyl Chloride	0.672	0.680		1.21	30
Bromomethane	0.468	0.469		0.13	30
Chloroethane	0.294	0.297		0.85	30
Tetrahydrofuran	0.320	0.360		12.67	30
Trichlorofluoromethane	2.022	1.947		-3.72	30
1,1,2-Trichlorotrifluoroethane	1.339	1.282		-4.25	30
Dichlorotetrafluoroethane	1.695	1.660		-2.11	30
Bromoethene	0.499	0.520		4.15	30
tert-Butyl alcohol	0.920	0.929		1.05	30
Heptane	1.549	1.619		4.54	30
1,1-Dichloroethene	0.583	0.588		0.89	30
Acetone	1.347	1.131		-16.05	30
Carbon Disulfide	1.648	1.679		1.9	30
Methyl tert-Butyl Ether	1.771	2.004		13.14	30
Methylene Chloride	0.582	0.551		-5.43	30
trans-1,2-Dichloroethene	0.637	0.683		7.21	30
1,1-Dichloroethane	1.483	1.504		1.47	30
Cyclohexane	0.942	1.034		9.75	30
2-Butanone	0.622	0.630		1.22	30
Carbon Tetrachloride	0.697	0.713		2.33	30
cis-1,2-Dichloroethene	0.989	1.094		10.64	30
Chloroform	1.685	1.689		0.23	30
1,1,1-Trichloroethane	1.597	1.695		6.12	30
2,2,4-Trimethylpentane	1.625	1.721		5.93	30
Benzene	0.938	1.011		7.74	30
1,2-Dichloroethane	0.577	0.579		0.31	30
Trichloroethene	0.369	0.393		6.47	30
1,2-Dichloropropane	0.363	0.374		2.89	30
Bromodichloromethane	0.736	0.778		5.7	30
4-Methyl-2-Pentanone	0.715	0.807		12.9	30
Toluene	1.137	1.240		9.11	30
t-1,3-Dichloropropene	0.453	0.537		18.5	30
cis-1,3-Dichloropropene	0.549	0.640		16.65	30
1,1,2-Trichloroethane	0.420	0.415		-1.07	30
Dibromochloromethane	0.622	0.655		5.17	30
1,2-Dibromoethane	0.615	0.626		1.75	30
Tetrachloroethene	0.357	0.373		4.48	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1658 SAS No.: H1658 SDG No.: H1658
 Instrument ID: MSVOA_L Calibration Date/Time: 03/04/2016 11:23
 Lab File ID: VL027155.D Init. Calib. Date(s): 03/03/2016 03/03/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 11:46 15:41
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.976	1.002		2.68	30
Ethyl Benzene	1.493	1.720		15.2	30
m/p-Xylene	1.254	1.387		10.57	30
o-Xylene	1.345	1.467		9.04	30
Styrene	0.481	0.616		27.98	30
Bromoform	0.448	0.508		13.49	30
1,1,2,2-Tetrachloroethane	0.956	1.006		5.23	30
2-Chlorotoluene	1.189	1.380		16.02	30
1,3,5-Trimethylbenzene	1.268	1.448		14.23	30
1,2,4-Trimethylbenzene	1.374	1.533		11.56	30
1,3-Dichlorobenzene	0.844	0.905		7.25	30
1,4-Dichlorobenzene	0.837	0.921		10.01	30
1,2-Dichlorobenzene	0.820	0.889		8.46	30
1,2,4-Trichlorobenzene	0.311	0.359		15.41	30
Hexachloro-1,3-Butadiene	0.229	0.252		10.08	30
1,3-Butadiene	0.603	0.600		-0.61	30
Naphthalene	0.670	0.796		18.81	30
4-Ethyltoluene	1.302	1.528		17.4	30
1-Bromo-4-Fluorobenzene	0.729	0.771		5.79	30
Hexane	1.167	1.227		5.07	30
Allyl Chloride	0.879	0.905		2.95	30
1,4-Dioxane	61.560	67.096		8.99	30
Methyl Methacrylate	0.328	0.376		14.41	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B1602053				Courier :				_____ of _____ COCs															
Client ID : ENVI27				Project ID : Frost Street Sites / SPGL 100.03				Sampler Name(s) :				Analysis															
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road City : Yaphank State : NY Zip Code : 11980 Country :				Project Manager JAMES WILKINSON				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15 Indoor/Ambient Air Soil Gas															
				Phone Number : 631-924-3001																							
				Fax Number : 631-924-5001																							
				Site Details:																							
Analysis Turnaround Time				Standard : 15 business days OR				Data Package Type :																			
Rush (Specify): Days				EDD Type :																							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID													
Effluent	2/26	16:50						-30	-6-7	NR	10664	1.4 L	NA	VL025410.D													
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> GC/MS Analyst Signature (TO-15) 											Ambient	Maximum	Minimum	Start				Stop									
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> ** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO											Ambient	Maximum	Minimum	Start				Stop									
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Special Instructions/QC Requirements & Comments :																											
Suspected Contamination: High Medium Low PID Readings:																											
Sampling site (State):																											
Quick Connector required : <i>yes</i>																											
Canisters Shipped by: <i>[Signature]</i>				Date/Time: <i>02/15/16</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>2-16 11:50</i>															
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>2/16</i>				Received by:				Date/Time:															
Relinquished by:				Date/Time:				Received by:				Date/Time:															
B1602053 - 2																											



41658

6.1

Client Contact Information						Bottle Order ID : B1602053						Courier :						_____ of _____ COCs											
Client ID : ENV127						Project ID : Frost Street Sites / SPGL 100.03						Sampler Name(s) :						Analysis						Matrix					
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road City : Yaphank State : NY Zip Code : 11980 Country :						Project Manager JAMES WILKINSON						AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																	
						Phone Number : 631-924-3001																							
						Fax Number : 6319245001																							
						Site Details:																							
						Analysis Turnaround Time																							
						Standard : 15 business days OR						Data Package Type :																	
						Rush (Specify): Days						EDD Type :																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15					Indoor/Ambient Air	Soil Gas								
Influent	2/26	17:00						-30	-9.6	NR	10470	1.4 L	NA	VL025410.D	✓														
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 																			
		Ambient		Maximum		Minimum																							
Start																													
Stop																													
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO																			
		Ambient		Maximum		Minimum																							
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings:																													
Sampling site (State):																													
Quick Connector required : Yes																													
Canisters Shipped by:				Date/Time: 02/15/16				Canisters Received by: C. B.				Date/Time: 3-2-16 11:30				B1602053 -													
Samples Relinquished by:				Date/Time: 3/1/16				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Laboratory Certification

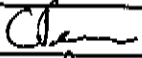
Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Louisiana	05035
Maine	2012025
Maryland	296
Massachusetts	M-NJ503
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>GENERAL</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>H1658</u>		Date Broken <u>3/2/2016</u>	Military Time Seal Broken: <u>11:50:00</u>
Case No.: <u>Frost Street Sites / SPGL 1</u>		Analytical Parameter/Fraction: <u>SUMMA Canister Rental</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
H1658-01	EFFLUENT		
H1658-02	INFLUENT		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
3/2/16	1525	Signature		Signature		AIR LAB
		Printed Name	C. Pena	Printed Name	J. Carver	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy