



Groundwater & Environmental Services, Inc.

6010 North Bailey Ave, Suite #1
Amherst, NY 14226

T. 800.287.7857

March 6, 2025

Stephen Moeller
NYSDEC Region 9
700 Delaware Avenue
Buffalo, New York 14203

**Re: Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Road
Frewsburg, New York 14738
NYSDEC Site No. 907016**

Dear Mr. Moeller:

Please find the results of the Soil Vapor Intrusion (SVI) investigation reported herein, which was conducted by Groundwater & Environmental Services, Inc. (GES) at the request of New York State Department of Environmental Conservation (NYSDEC). This report provides a summary of the SVI investigation methodology and results conducted in association with the above referenced property (hereto referenced as "the Site") in Frewsburg, New York. The overall goal of the SVI investigation was to evaluate potential human exposure to volatile organic compounds (VOCs) in the subsurface.

SVI Investigation

At the direction of NYSDOH, GES conducted an SVI investigation at 300 Falconer Road, Frewsburg, New York. The SVI investigation was completed in accordance with the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006) (hereto referred to as the "NYSDOH SVI Guidance").

A total of six (6) soil vapor well points were installed (SV-01 to SV-06) on site from April 22 to April 24, 2024. SV-01 to SV-05 were installed following the submitted SVI Workplan (**Appendix A**) which is summarized below:

A soil boring was advanced using hand tools until the water table was encountered. A 12" soil vapor implant with inert 1/4" outer diameter (OD) stainless-steel tubing was placed in the borehole, with inert #00 sand pack placed around the implant and tubing to 12" above the top of the probe, a 12" bentonite seal was placed on top of the sand pack to, and then a cement surface seal. A Swagelok cap was fitted to the surface end of the tubing to allow quick connection to sampling canister. The soil vapor points are flush mounted within an 8" monitoring well road box that was placed in a 12" diameter concrete pad.

The groundwater level measured within the area SV-06 was installed was found to be approximately 1 foot below ground surface (bgs). Under the direction of NYSDOH, GES installed SV-06 horizontally immediately above the water table. As discussed in the below section, SV-06 was found to be unable to collect a soil vapor sample and therefore no construction summary was generated. The construction summaries of the soil vapor well points, except SV-06, are included

in **Appendix B**. The sample locations can be found on **Figure 1**. Photos of the soil vapor well point installation are included in **Appendix C**.

On May 1, 2024, a helium detector was utilized to test for a positive seal at the soil vapor well points. Using a PVC well cap enclosure over the soil vapor point, the atmosphere within the immediate vicinity of the area where the soil vapor point intersects the ground surface was enriched with helium and air was purged from the soil vapor point to test to ensure no connectivity existed between the enclosure and the soil sampling space.

An active approach, utilizing laboratory certified Summa canisters were used to evaluate the soil vapor conditions. Soil vapor samples were collected from the soil directly above the water table. 8-Hour samples were collected using 6-liter stainless steel Summa canisters, provided by Con-Test Pace Analytical. (a NYSDEC contracted laboratory), of East Longmeadow, Massachusetts.

Soil Vapor Sampling

On May 20, 2024, a total of five (5) samples were collected at the Site in addition to one (1) field duplicate at SV-05. The samples were collected by following *NYSDOH SVI Guidance* for soil vapor sampling. The five (5) soil vapor well points located along the western edge of the Site (SV-01 to SV-05). The final point (SV-06) is located in the field south of the Front Processing Building. While collecting the sample at SV-06, the pressure gauge on the Summa canister was observed to not be changing; indicating that the canister was not being filled with soil vapor. After 7 hours, water was observed in the tubing and it was concluded that the well screen was saturated and that the sample could not be collected. The canister was removed and sample SV-06 was cancelled. Photos of the vapor sampling are included in **Appendix C**.

All samples were collected utilizing a Summa canister fitted with a preset air intake regulator. The samples were collected over an 8-hour period. Field data readings, sample times, and observations are provided in **Table 1**.

Results

Upon collection of the sample canisters, the samples were submitted to Con-Test Pace Analytical under chain of custody for laboratory analysis utilizing Method TO-15. Con-Test Pace Analytical was also instructed to prepare a NYSDEC ASP Category B laboratory data package for the purpose of data validation. A summary of the analytical data is provided in **Table 2**. The laboratory conducted EPA TO-15 analysis. The laboratory data package is included as **Appendix D**.

According to section 3.3.1 of *NYSDOH SVI Guidance*, New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor.

Analytical Results

The following analytes were detected in one or more the samples:

- Benzene
- Tert-Butyl Alcohol
- Chloroethane
- Chloroform
- Chloromethane
- Cyclohexane
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane (Freon 12)
- 1,1-Dichloroethylene
- Cis-1,2-Dichloroethylene
- Trans-1,2-Dichloroethylene
- Ethanol
- Ethylbenzene
- Heptane
- Hexane
- Methylene Chloride
- 4-Methyl-2-pentanone (MIBK)
- Naphthalene

- Tetrachloroethylene
- Toluene
- Trichloroethylene
- Trichlorofluoromethane (Freon 11)
- 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
- 2,2,4-Trimethylpentane
- Vinyl Chloride
- M&P-Xylene
- O-Xylene

The laboratory analytical report is provided in **Appendix D**.

Data Usability Summary Report (DUSR)

A third-party data validator, Environmental Data Quality, Inc. (EDQI) of Exton, Pennsylvania, was contracted to prepare a DUSR for the laboratory results in accordance with NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (May 2010). The DUSR reports and associated validated laboratory analytical reports are provided in **Appendix E**. The DUSR found the results and reporting to be qualitatively and quantitatively valid as reported by the laboratory except as noted below:

The continuing calibration criterion was exceeded for 2-Butanone and Chloromethane in all samples which resulted in the positive results being biased low. Positive results have been marked with the appropriate qualifier.

The volatile laboratory control sample results did not meet the indicated acceptance limits for 2-Butanone and Chloromethane in all samples. Positive results have been marked with the appropriate qualifier.

If you have any questions or concerns, please contact GES at 1-800-287-7857.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Owen Ogion
Associate Geologist

Thomas Palmer
Principal Project Manager

Attachments

Figure 1 – Soil Vapor Sample Location Map

Table 1 – Soil Vapor Sampling Field Data

Table 2 – Air Analytical Summary

Appendix A – SVI Workplan

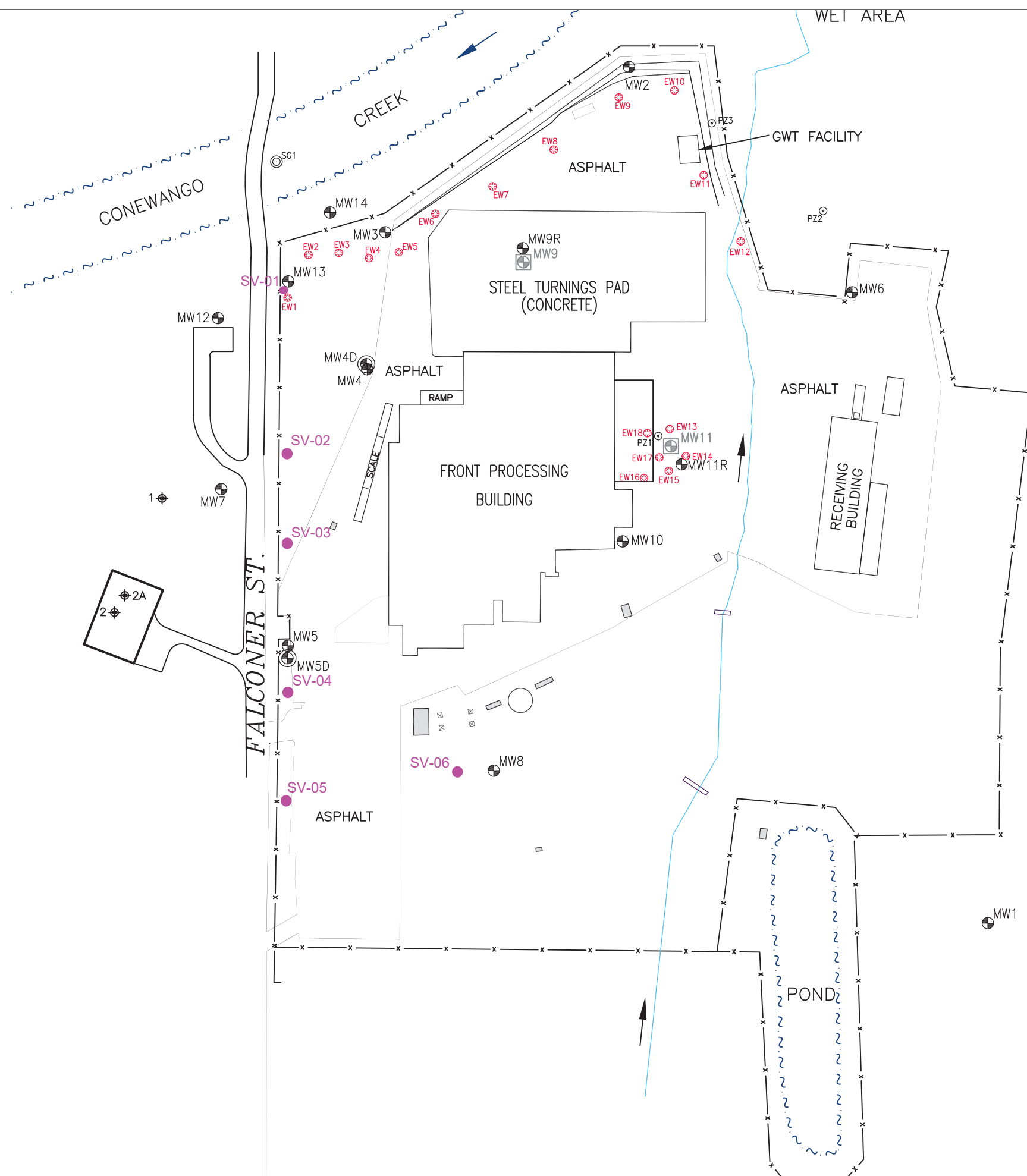
Appendix B – Well Construction Logs

Appendix C – Photo Log

Appendix D – Laboratory Analytical Report

Appendix E – Data Usability Summary Report

Figures



LEGEND

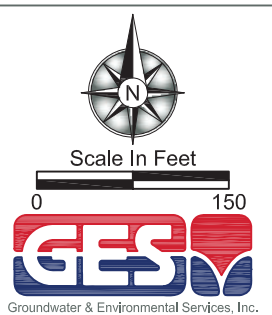
- | | |
|-------|------------------------------------|
| — x — | FENCE |
| — | BARRIER WALL |
| — | SWALE/CULVERT |
| ⊗ | SHALLOW MONITORING WELL |
| ⊗ | DESTROYED/ABANDONED WELL |
| ⊗ | DEEP MONITORING WELL |
| ⊗ | EXTRACTION WELL |
| ⊙ | PIEZOMETER |
| ⊙ | SURFACE WATER/STAFF GAUGE LOCATION |
| ● | SOIL VAPOR POINTS |

Soil Vapor Sample Locations

NYSDEC
Vac-Air Alloys Site #907016
300 Falconer Street
Frewsburg, New York

Drawn
W.G.S.
Designed
Approved

Date
5/20/24
Figure
1



Tables

Table 1 - Air Quality Sampling Field Data

May 20, 2024
300 Falconer Street
Keywell LLC Vac-Air Division
Frewsburg New York
NYSDEC Site #907016

Sample ID	Sample Type	Location	Helium Test	Purge Volume	Regulator #	Canister #	Date Start	Time Start	Pressure Start ("Hg)	Date End	Time End	Pressure End ("Hg)
SV-01	Soil Vapor	W Edge of Site	Pass	250 mL	3765	1268	5/20/2024	10:02	-28	5/20/2024	18:02	-10
SV-02	Soil Vapor	W Edge of Site	Pass	250 mL	3754	2997	5/20/2024	10:01	-29	5/20/2024	18:01	-8
SV-03	Soil Vapor	W Edge of Site	Pass	250 mL	3755	2069	5/20/2024	09:58	-28	5/20/2024	17:58	-11
SV-04	Soil Vapor	W Edge of Site	Pass	250 mL	3772	1981	5/20/2024	09:57	-28	5/20/2024	17:57	-9
SV-05	Soil Vapor	W Edge of Site	Pass	250 mL	5106	1663	5/20/2024	09:46	-27	5/20/2024	16:46	-3
SV-06	Soil Vapor	S of Processing Building	NA	250 mL	3764	2229	5/20/2024	09:44	-28	5/20/2024	17:00	-28 ^A
DUP	Soil Vapor	W Edge of Site (SV-05)	Pass	250 mL	5106	2403	5/20/2024	09:46	-27	5/20/2024	16:46	-3

Note:

^A = No sample collected; well screen below water table

NA = not applicable

"Hg = inches of mercury



Table 2 - Sampling Analytical Data

May 20, 2024
300 Falconer Street
Keywell Vac-Air Division
Frewsburg, New York
NYSDEC Site #907016

Sample ID		SV-01	SV-02	SV-03	SV-04	SV-05	
Sample Date		5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024
Matrix		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	DUP
Analyte	Units	Results	Results	Results	Results	Results	Results
Benzene	µg/m3	2.6	3.3	0.22	1.8	0.13	0.17
Benzyl chloride	µg/m3	ND <0.26	ND <0.26	ND <0.26	ND <0.26	ND <0.26	ND <0.26
Bromodichloromethane	µg/m3	ND <0.28	ND <0.28	ND <0.28	ND <0.28	ND <0.28	ND <0.28
Bromoform	µg/m3	ND <0.25	ND <0.25	ND <0.25	ND <0.25	ND <0.25	ND <0.25
Bromomethane	µg/m3	ND <0.33	ND <0.33	ND <0.33	ND <0.33	ND <0.33	ND <0.33
2-Butanone (MEK)	µg/m3	ND <5.8	ND <5.8	ND <5.8	ND <5.8	ND <5.8	ND <5.8
tert-Butyl Alcohol (TBA)	µg/m3	ND <0.47	ND <0.47	ND <0.47	1.1	ND <0.47	ND <0.47
Carbon Tetrachloride	µg/m3	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50	ND <0.50
Chlorobenzene	µg/m3	ND <0.15	ND <0.15	ND <0.15	ND <0.15	ND <0.15	ND <0.15
Chloroethane	µg/m3	ND <0.24	1.6	ND <0.24	ND <0.24	ND <0.24	ND <0.24
Chloroform	µg/m3	ND <0.24	ND <0.24	0.58	16	15	14
Chloromethane	µg/m3	ND <0.28	ND <0.28	ND <0.28	ND <0.28	ND <0.28	0.36
Cyclohexane	µg/m3	ND <0.27	15	ND <0.27	ND <0.27	ND <0.27	ND <0.27
Dibromochloromethane	µg/m3	ND <0.57	ND <0.57	ND <0.57	ND <0.57	ND <0.57	ND <0.57
1,2-Dibromoethane (EDB)	µg/m3	ND <0.48	ND <0.48	ND <0.48	ND <0.48	ND <0.48	ND <0.48
1,2-Dichlorobenzene	µg/m3	ND <0.19	ND <0.19	ND <0.19	ND <0.19	ND <0.19	ND <0.19
1,3-Dichlorobenzene	µg/m3	ND <0.18	ND <0.18	ND <0.18	ND <0.18	ND <0.18	ND <0.18
1,4-Dichlorobenzene	µg/m3	ND <0.29	2.8	2.6	2.5	ND <0.29	0.84
Dichlorodifluoromethane (Freon 12)	µg/m3	ND <0.21	8.7	3.1	4.3	13	3.9
1,1-Dichloroethane	µg/m3	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
1,2-Dichloroethane	µg/m3	ND <0.15	ND <0.15	ND <0.15	ND <0.15	ND <0.15	ND <0.15
1,1-Dichloroethylene	µg/m3	ND <0.28	290	ND <0.28	ND <0.28	ND <0.28	ND <0.28
cis-1,2-Dichloroethylene	µg/m3	3.6	720	ND <0.19	ND <0.19	ND <0.19	ND <0.19
trans-1,2-Dichloroethylene	µg/m3	0.6	11	ND <0.19	ND <0.19	ND <0.19	ND <0.19
1,2-Dichloropropane	µg/m3	ND <0.34	ND <0.34	ND <0.34	ND <0.34	ND <0.34	ND <0.34
cis-1,3-Dichloropropene	µg/m3	ND <0.23	ND <0.23	ND <0.23	ND <0.23	ND <0.23	ND <0.23
trans-1,3-Dichloropropene	µg/m3	ND <0.44	ND <0.44	ND <0.44	ND <0.44	ND <0.44	ND <0.44
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	µg/m3	ND <0.28	ND <0.28	ND <0.28	ND <0.28	ND <0.28	ND <0.28
1,4-Dioxane	µg/m3	ND <1.8	ND <1.8	ND <1.8	ND <1.8	ND <1.8	ND <1.8
Ethanol	µg/m3	8.9	ND <5.0	ND <5.0	15	ND <5.0	ND <5.0



Table 2 - Sampling Analytical Data

May 20, 2024
300 Falconer Street
Keywell Vac-Air Division
Frewsburg, New York
NYSDEC Site #907016

Sample ID		SV-01	SV-02	SV-03	SV-04	SV-05	
Sample Date		5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024	5/20/2024
Matrix		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	DUP
Analyte	Units	Results	Results	Results	Results	Results	Results
Ethylbenzene	µg/m3	1.4	0.16	ND <0.15	ND <0.15	ND <0.15	ND <0.15
Heptane	µg/m3	ND <0.26	3.6	ND <0.26	ND <0.26	0.31	ND <0.26
Hexachlorobutadiene	µg/m3	ND <0.63	ND <0.63	ND <0.63	ND <0.63	ND <0.63	ND <0.63
Hexane	µg/m3	ND <7.4	67	ND <7.4	ND <7.4	ND <7.4	ND <7.4
Methyl tert-Butyl Ether (MTBE)	µg/m3	ND <0.18	ND <0.18	ND <0.18	ND <0.18	ND <0.18	ND <0.18
Methylene Chloride	µg/m3	1.1	ND <0.93	ND <0.93	ND <0.93	ND <0.93	ND <0.93
4-Methyl-2-pentanone (MIBK)	µg/m3	ND <0.19	ND <0.19	0.42	1.1	ND <0.19	ND <0.19
Naphthalene	µg/m3	0.46	ND <0.43	ND <0.43	ND <0.43	ND <0.43	ND <0.43
Styrene	µg/m3	ND <0.33	ND <0.33	ND <0.33	ND <0.33	ND <0.33	ND <0.33
1,1,2,2-Tetrachloroethane	µg/m3	ND <0.17	ND <0.17	ND <0.17	ND <0.17	ND <0.17	ND <0.17
Tetrachloroethylene	µg/m3	1.8	1.2	0.58	ND <0.58	ND <0.58	0.6
Toluene	µg/m3	1.7	1.3	0.38	2.7	0.29	0.25
1,2,4-Trichlorobenzene	µg/m3	ND <0.43	ND <0.43	ND <0.43	ND <0.43	ND <0.43	ND <0.43
1,1,1-Trichloroethane	µg/m3	ND <0.25	ND <0.25	ND <0.25	ND <0.25	ND <0.25	ND <0.25
1,1,2-Trichloroethane	µg/m3	ND <0.19	ND <0.19	ND <0.19	ND <0.19	ND <0.19	ND <0.19
Trichloroethylene	µg/m3	16	260	1.5	ND <0.41	ND <0.41	ND <0.41
Trichlorofluoromethane (Freon 11)	µg/m3	1	ND <0.23	1.9	2.1	2.7	2.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m3	0.55	ND <0.21	0.66	0.57	0.71	0.75
1,2,4-Trimethylbenzene	µg/m3	ND <0.29	ND <0.29	ND <0.29	ND <0.29	ND <0.29	ND <0.29
1,3,5-Trimethylbenzene	µg/m3	ND <0.38	ND <0.38	ND <0.38	ND <0.38	ND <0.38	ND <0.38
2,2,4-Trimethylpentane	µg/m3	ND <0.40	8.4	ND <0.40	ND <0.40	ND <0.40	ND <0.40
Vinyl Chloride	µg/m3	3.3	3500	ND <0.13	ND <0.13	ND <0.13	ND <0.13
m&p-Xylene	µg/m3	2.8	0.39	ND <0.30	ND <0.30	ND <0.30	ND <0.30
o-Xylene	µg/m3	ND <0.14	0.24	ND <0.14	ND <0.14	ND <0.14	ND <0.14

Notes:

µg/m3 = micrograms per cubic meter

ND <123 = Non-detect; value less than detection limit

123 = Detection



*Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Road
Frewsburg, New York 14738
NYSDEC Site No. 907016*

Appendix A – SVI Workplan



Groundwater & Environmental Services, Inc.
6010 North Bailey Ave., Suite 1
Amherst, NY 14226
T. 800.287.7857

March 15, 2024

Mr. Steven Moeller, P.G.
NYSDEC Region 9
700 Delaware Avenue
Buffalo, New York 14209

**RE: Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Street
Frewsburg, New York 14738
NYSDEC Site No. 907016**

Dear Mr. Moeller:

Groundwater & Environmental Services, Inc., (GES) has prepared this *Soil Vapor Intrusion Investigation (SVI) Work Plan* for properties located at 300 Falconer Street in the village of Frewsburg, New York (the Site). This SVI Work Plan has been prepared on behalf of New York State Department of Environmental Conservation (NYSDEC).

The investigation will be performed in accordance with the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006. To help evaluate soil vapor conditions on Site, six (6) soil vapor points will be installed on the western side of the Site (**Figure 1**).

The soil vapor points will be installed as permanent points to allow resampling. Due to the presence of underground utilities, the soil vapor points will be advanced using a hand auger to the water table (approximately 4-5 feet below ground surface [ft bgs]). A 12" soil vapor implant with inert 1/4" OD stainless-steel tubing will be placed in the borehole, sand pack will be placed around the implant and tubing to 12" above the top of the probe, a bentonite seal will be placed on top of the sand pack to 1 ft bgs, and then a cement surface seal. A Swagelok cap will be fitted to the surface end of the tubing to allow quick connection to sampling cannister. The soil vapor point will be flush mounted within a 4" monitoring well road box that will be placed in a 12" x 12" concrete pad.

Following sampling point installation and at least 24 hours after installation, each point will be leak checked using helium and a helium detector per NYSDOH guidance to ensure samples collected are representative of the sub-surface conditions. After passing leak detection testing and prior to sampling, the probe and sample tube will be purged one to three volumes to minimize discrepancies and to obtain representative samples.

Samples will be collected using lab provided 6-liter stainless steel suma canisters fitted with 8-hour regulators and analyzed via United States Environmental Protection Agency (EPA) Method TO-15 for



Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
NYSDEC Site #907016
March 15, 2024
Page 2 of 2

volatile organic compounds. One (1) soil vapor duplicate will be collected. No indoor air samples are being collected; therefore, an indoor air quality questionnaire will not need to be completed.

GES is planning the work schedule for this site to target the end of March 2024, pending availability and site conditions. Any portion of the property that is affected by the activities will be restored in kind with the surrounding conditions.

The site work conducted during the SVI investigation will be documented in a *Soil Vapor Intrusion Report*, which will include the analytical data and review of the data with the NYSDOH soil vapor / indoor air matrices. The report will be prepared and submitted following the completion of onsite activities.

Sincerely,
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read 'Owen Ogiony', written in a cursive style.

Owen Ogiony
Associate Geologist

A handwritten signature in black ink, appearing to read 'Thomas D Palmer', written in a cursive style.

Thomas Palmer
Sr. Project Manager

Attachments:
Figure 1 – Proposed Sample Locations

Figures

Appendix B – Soil Vapor Point Construction Logs



Soil Vapor Well Completion

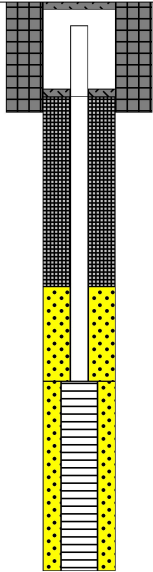
Groundwater & Environmental Services, Inc.

ID NO. SV-01

Project: **Former Keywell LLC Vac-Air Division** Client: **New York State DEC** Regulatory Case #: **907016**
Address: **300 Falconer Street** GES Job #: **0924003** Regulatory Case Mgr: **Steve Moeller**
County: **Chautauqua** GES Project Mgr: **Tom Palmer** Permit #:

Logged By: **Owen Ogiony** Date Drilled: **4/23/24** Core Barrel Diameter: **NA**
Drilling Company: **GES** Completion Date: **4/23/24** Core Barrel Length: **NA**
Drill Operator: **NA** Drilling Method: **Hand Auger** Soil Classification System:
Drill Rig Type: **Hand Auger** Sampling Method: **Hand Auger** Field Screening: **NA**

Latitude: **Not Surveyed** Longitude: **Not Surveyed** Top of Bentonite Seal: **0.5 fbg**
Surface Elevation: **Not Surveyed** Borehole Diameter: **1.6 in.** Type of Seal: **Bentonite Chips**
Total Depth: **36"** Well Diameter: **0.25 in.** Top of Sand: **1.5 fbg**
Refusal Depth: **36"** Riser Length: **2 ft** Sand Type: **#00 Sand, etc.**
Initial Depth to Water: **34"** Screen Slot Size: **150 Microns** Well Material Type: **316 Stainless Steel**
Static Depth to Water: **34"** Screen Length: **12"** Top of Grout: **0.458 fbg.**

Depth	Sample Interval	Recovery	Field Screen	Blow Counts	Geologic Description	Comments	Well Completion Detail
(feet)	(feet)	(in./in.)	(ppm)				
0					No Soil Logging	Well Box in concrete pad Portland Grout Bentonite Seal #00 Sand Pack 12" Soil Vapor Probe Moist-Wet soil Total Depth: 36"	
5							

Proportions Used:

Trace = <5%
Few = 5-10%
Little = 10-20%
Some = 20-30%
Adjective = 30-40%
And = >40%

Notes:

NA = not available; fbg. = feet below grade
in. = inches; ft. = feet; ppm. = parts per million
Soil Lithologies based on field observations only.
General Text here, site specific
General Text II, details

Blow Count Penetration Resistance:

Consistency (M&C)	Density (G&S)
<2 = Very Soft	0-4 = Very Loose
2-4 = Soft	4-10 = Loose
4-8 = Medium	10-30 = Medium
8-15 = Stiff	30-50 = Dense
15-30 = Very Stiff	>50 = Very Dense
>30 = Hard	

Symbols:

Apparent Water Level 
Lab Sample Location 

SV-01

p. 1 of 1



Soil Vapor Well Completion

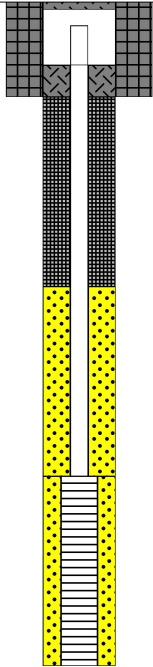
Groundwater & Environmental Services, Inc.

ID NO. SV-02

Project: **Former Keywell LLC Vac-Air Division** Client: **New York State DEC** Regulatory Case #: **907016**
Address: **300 Falconer Street** GES Job #: **0924003** Regulatory Case Mgr: **Steve Moeller**
County: **Chautauqua** GES Project Mgr: **Tom Palmer** Permit #:

Logged By: **Owen Ogiony** Date Drilled: **4/22/24** Core Barrel Diameter: **NA**
Drilling Company: **GES** Completion Date: **4/22/24** Core Barrel Length: **NA**
Drill Operator: **NA** Drilling Method: **Hand Auger** Soil Classification System:
Drill Rig Type: **Hand Auger** Sampling Method: **Hand Auger** Field Screening: **NA**

Latitude: **Not Surveyed** Longitude: **Not Surveyed** Top of Bentonite Seal: **0.5 fbg**
Surface Elevation: **Not Surveyed** Borehole Diameter: **1.6 in.** Type of Seal: **Bentonite Chips**
Total Depth: **42"** Well Diameter: **0.25 in.** Top of Sand: **1.5 fbg**
Refusal Depth: **42"** Riser Length: **2.5 ft** Sand Type: **#00 Sand, etc.**
Initial Depth to Water: **38"** Screen Slot Size: **150 Microns** Well Material Type: **316 Stainless Steel**
Static Depth to Water: **38"** Screen Length: **12"** Top of Grout: **0.334 fbg.**

Depth	Sample Interval	Recovery	Field Screen	Blow Counts	Geologic Description	Comments	Well Completion Detail
(feet)	(feet)	(in./in.)	(ppm)				
0					No Soil Logging	Well Box in concrete pad Portland Grout Bentonite Seal #00 Sand Pack 12" Soil Vapor Probe Moist-Wet soil Total Depth: 42"	
5							

Proportions Used:

Trace = <5%
Few = 5-10%
Little = 10-20%
Some = 20-30%
Adjective = 30-40%
And = >40%

Notes:

NA = not available; fbg. = feet below grade
in. = inches; ft. = feet; ppm. = parts per million
Soil Lithologies based on field observations only.
General Text here, site specific
General Text II, details

Blow Count Penetration Resistance:

Consistency (M&C)	Density (G&S)
<2 = Very Soft	0-4 = Very Loose
2-4 = Soft	4-10 = Loose
4-8 = Medium	10-30 = Medium
8-15 = Stiff	30-50 = Dense
15-30 = Very Stiff	>50 = Very Dense
>30 = Hard	

Symbols:

Apparent Water Level 
Lab Sample Location 

SV-02

p. 1 of 1



Soil Vapor Well Completion

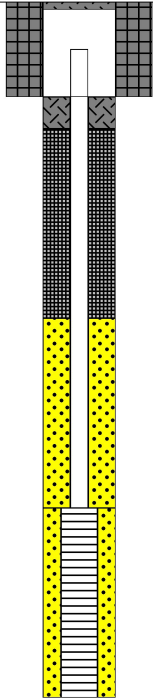
Groundwater & Environmental Services, Inc.

ID NO. SV-03

Project: **Former Keywell LLC Vac-Air Division** Client: **New York State DEC** Regulatory Case #: **907016**
Address: **300 Falconer Street** GES Job #: **0924003** Regulatory Case Mgr: **Steve Moeller**
County: **Chautauqua** GES Project Mgr: **Tom Palmer** Permit #:

Logged By: **Owen Ogiony** Date Drilled: **4/22/24** Core Barrel Diameter: **NA**
Drilling Company: **GES** Completion Date: **4/22/24** Core Barrel Length: **NA**
Drill Operator: **NA** Drilling Method: **Hand Auger** Soil Classification System:
Drill Rig Type: **Hand Auger** Sampling Method: **Hand Auger** Field Screening: **NA**

Latitude: **Not Surveyed** Longitude: **Not Surveyed** Top of Bentonite Seal: **1.667 fbg**
Surface Elevation: **Not Surveyed** Borehole Diameter: **1.6 in.** Type of Seal: **Bentonite Chips**
Total Depth: **44"** Well Diameter: **0.25 in.** Top of Sand: **2.667 fbg**
Refusal Depth: **44"** Riser Length: **2.667 ft** Sand Type: **#00 Sand, etc.**
Initial Depth to Water: **40"** Screen Slot Size: **150 Microns** Well Material Type: **316 Stainless Steel**
Static Depth to Water: **40"** Screen Length: **12"** Top of Grout: **0.5 fbg.**

Depth (feet)	Sample Interval (feet)	Recovery (in./in.)	Field Screen (ppm)	Blow Counts	Geologic Description	Comments	Well Completion Detail
0					No Soil Logging	Well Box in concrete pad Portland Grout Bentonite Seal #00 Sand Pack 12" Soil Vapor Probe Moist-Wet soil Total Depth: 44"	
5							

Proportions Used:

Trace = <5%
Few = 5-10%
Little = 10-20%
Some = 20-30%
Adjective = 30-40%
And = >40%

Notes:

NA = not available; fbg. = feet below grade
in. = inches; ft. = feet; ppm. = parts per million
Soil Lithologies based on field observations only.
General Text here, site specific
General Text II, details

Blow Count Penetration Resistance:

Consistency (M&C)	Density (G&S)
<2 = Very Soft	0-4 = Very Loose
2-4 = Soft	4-10 = Loose
4-8 = Medium	10-30 = Medium
8-15 = Stiff	30-50 = Dense
15-30 = Very Stiff	>50 = Very Dense
>30 = Hard	

Symbols:

Apparent Water Level 
Lab Sample Location 

SV-03

p. 1 of 1



Soil Vapor Well Completion

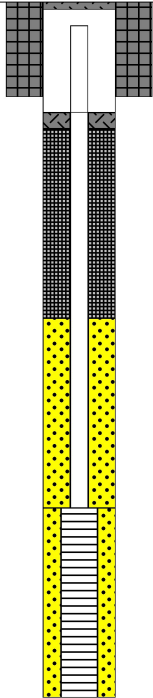
Groundwater & Environmental Services, Inc.

ID NO. SV-04

Project: **Former Keywell LLC Vac-Air Division** Client: **New York State DEC** Regulatory Case #: **907016**
Address: **300 Falconer Street** GES Job #: **0924003** Regulatory Case Mgr: **Steve Moeller**
County: **Chautauqua** GES Project Mgr: **Tom Palmer** Permit #:

Logged By: **Owen Ogiony** Date Drilled: **4/23/24** Core Barrel Diameter: **NA**
Drilling Company: **GES** Completion Date: **4/23/24** Core Barrel Length: **NA**
Drill Operator: **NA** Drilling Method: **Hand Auger** Soil Classification System:
Drill Rig Type: **Hand Auger** Sampling Method: **Hand Auger** Field Screening: **NA**

Latitude: **Not Surveyed** Longitude: **Not Surveyed** Top of Bentonite Seal: **0.667 fbg**
Surface Elevation: **Not Surveyed** Borehole Diameter: **1.6 in.** Type of Seal: **Bentonite Chips**
Total Depth: **44"** Well Diameter: **0.25 in.** Top of Sand: **1.667 fbg**
Refusal Depth: **44"** Riser Length: **2.5 ft** Sand Type: **#00 Sand, etc.**
Initial Depth to Water: **40"** Screen Slot Size: **150 Microns** Well Material Type: **316 Stainless Steel**
Static Depth to Water: **40"** Screen Length: **12"** Top of Grout: **0.583 fbg.**

Depth (feet)	Sample Interval (feet)	Recovery (in./in.)	Field Screen (ppm)	Blow Counts	Geologic Description	Comments	Well Completion Detail
0					No Soil Logging	Well Box in concrete pad Portland Grout Bentonite Seal #00 Sand Pack 12" Soil Vapor Probe Moist-Wet soil Total Depth: 44"	
5							

Proportions Used:

Trace = <5%
Few = 5-10%
Little = 10-20%
Some = 20-30%
Adjective = 30-40%
And = >40%

Notes:

NA = not available; fbg. = feet below grade
in. = inches; ft. = feet; ppm. = parts per million
Soil Lithologies based on field observations only.
General Text here, site specific
General Text II, details

Blow Count Penetration Resistance:

Consistency (M&C)	Density (G&S)
<2 = Very Soft	0-4 = Very Loose
2-4 = Soft	4-10 = Loose
4-8 = Medium	10-30 = Medium
8-15 = Stiff	30-50 = Dense
15-30 = Very Stiff	>50 = Very Dense
>30 = Hard	

Symbols:

Apparent Water Level 
Lab Sample Location 

SV-04

p. 1 of 1



Soil Vapor Well Completion

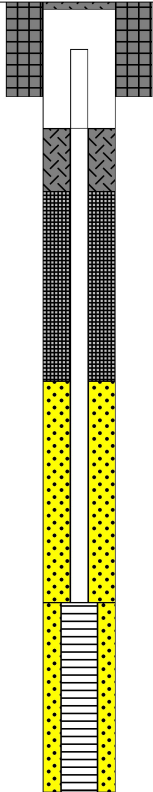
Groundwater & Environmental Services, Inc.

ID NO. SV-05

Project: **Former Keywell LLC Vac-Air Division** Client: **New York State DEC** Regulatory Case #: **907016**
Address: **300 Falconer Street** GES Job #: **0924003** Regulatory Case Mgr: **Steve Moeller**
County: **Chautauqua** GES Project Mgr: **Tom Palmer** Permit #:

Logged By: **Owen Ogiony** Date Drilled: **4/22/24** Core Barrel Diameter: **NA**
Drilling Company: **GES** Completion Date: **4/22/24** Core Barrel Length: **NA**
Drill Operator: **NA** Drilling Method: **Hand Auger** Soil Classification System:
Drill Rig Type: **Hand Auger** Sampling Method: **Hand Auger** Field Screening: **NA**

Latitude: **Not Surveyed** Longitude: **Not Surveyed** Top of Bentonite Seal: **1.0 fbg**
Surface Elevation: **Not Surveyed** Borehole Diameter: **1.6 in.** Type of Seal: **Bentonite Chips**
Total Depth: **50"** Well Diameter: **0.25 in.** Top of Sand: **2.0 fbg**
Refusal Depth: **NA** Riser Length: **3 ft** Sand Type: **#00 Sand, etc.**
Initial Depth to Water: **4 fbg** Screen Slot Size: **150 Microns** Well Material Type: **316 Stainless Steel**
Static Depth to Water: **4 fbg** Screen Length: **1 ft** Top of Grout: **1/3 fbg.**

Depth	Sample Interval	Recovery	Field Screen	Blow Counts	Geologic Description	Comments	Well Completion Detail
(feet)	(feet)	(in./in.)	(ppm)				
0					No Soil Logging	Well Box in concrete pad Portland Grout Bentonite Seal #00 Sand Pack 12" Soil Vapor Probe Moist-Wet soil Total Depth: 50"	
5							

Proportions Used:

Trace = <5%
Few = 5-10%
Little = 10-20%
Some = 20-30%
Adjective = 30-40%
And = >40%

Notes:

NA = not available; fbg. = feet below grade
in. = inches; ft. = feet; ppm. = parts per million
Soil Lithologies based on field observations only.
General Text here, site specific
General Text II, details

Blow Count Penetration Resistance:

Consistency (M&C)	Density (G&S)
<2 = Very Soft	0-4 = Very Loose
2-4 = Soft	4-10 = Loose
4-8 = Medium	10-30 = Medium
8-15 = Stiff	30-50 = Dense
15-30 = Very Stiff	>50 = Very Dense
>30 = Hard	

Symbols:

Apparent Water Level 
Lab Sample Location 

SV-05

p. 1 of 1

*Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Road
Frewsburg, New York 14738
NYSDEC Site No. 907016*

Appendix C – Photo Log

Client: New York State DEC
Site Name:
NYSDEC/FrewsburgNY/FalconerSt300

Project: 0924003/05/210

Site Location: 300 Falconer Rd

Photo #: 1
Date: 04/24/2024
Direction: NA

Comments:

Soil vapor well point prior to bentonite seal and road box installation.



Client: New York State DEC
Site Name: NYSDEC/FrewsburgNY/FalconerSt300

Project: 0924003/05/210

Site Location: 300 Falconer Rd

Photo #: 2
Date: 04/24/2024
Direction: NA

Comments:

Soil vapor well point prior to concrete well pad installation.



Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	3	
Date:	04/24/2024	
Direction:	NA	
Comments: Soil vapor well point screen (12")		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	4	
Date:	04/24/2024	
Direction:	NA	
Comments: Soil vapor well point top connection. Sealed with cap and tape to prevent debris from entering well.		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	5	
Date:	04/24/2024	
Direction:	NA	
Comments: Soil vapor well point after concrete pad pour		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	6	
Date:	04/24/2024	
Direction:	NA	
Comments: SV-06: soil vapor well point with 90-degree curve.		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	7	
Date:	04/24/2024	
Direction:	NA	
Comments: SV-06: High water table with sand placed in bottom of hole. Probe installed horizontally 12" below ground surface.		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	8	
Date:	04/24/2024	
Direction:	NA	
Comments: SV-06: horizontal probe install with bentonite seal		

Client: New York State DEC		Project: 0924003/05/210
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer Rd
Photo #:	9	
Date:	04/24/2024	
Direction:	NA	
Comments: SV-06: Sod placed on top of bentonite seal with soil vapor sample port sticking up.		

Client: New York State DEC		Project: 0924003/05/206
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer St
Photo #:	10	
Date:	05/01/2024	
Direction:	NA	
Comments: Helium testing setup at SV-05.		

Client: New York State DEC		Project: 0924003/05/206	
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer St	
Photo #:	11		
Date:	05/20/2024		
Direction:	NA		
Comments: DUP and SV-05 sample being collected.			

Client: New York State DEC		Project: 0924003/05/206	
Site Name: NYSDCE/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer St	
Photo #:	12		
Date:	05/20/2024		
Direction:	NA		
Comments: SV-01 sample being collected.			

Client: New York State DEC		Project: 0924003/05/206
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer St
Photo #:	13	
Date:	05/20/2024	
Direction:	NA	
Comments: SV-06 sample being collected.		

Client: New York State DEC		Project: 0924003/05/206
Site Name: NYSDEC/FrewsburgNY/FalconerSt300		Site Location: 300 Falconer St
Photo #:	14	
Date:	05/20/2024	
Direction:	NA	
Comments: Water observed in tubing at SV-06; sample collection halted.		

*Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Road
Frewsburg, New York 14738
NYSDEC Site No. 907016*

Appendix D – Laboratory Analytical Report

May 23, 2024

Steven Moeller
NYDEC_GES - Amherst, NY
6010 North Bailey Ave., Suite 1
Amherst, NY 14226

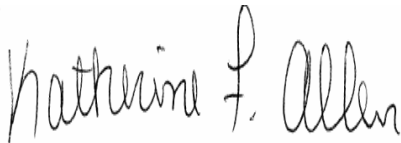
Project Location: Frewsburg, NY
Client Job Number:
Project Number: 907016
Laboratory Work Order Number: 24E2845

Enclosed are results of analyses for samples as received by the laboratory on May 22, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager



QA Officer
Katherine Allen



Laboratory Manager
Daren Damboragian

NYDEC_GES - Amherst, NY
6010 North Bailey Ave., Suite 1
Amherst, NY 14226
ATTN: Steven Moeller

REPORT DATE: 5/23/2024

PURCHASE ORDER NUMBER: 151686

PROJECT NUMBER: 907016

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E2845

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Frewsburg, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SV-01	24E2845-01	Soil Gas		- EPA TO-15	
SV-02	24E2845-02	Soil Gas		- EPA TO-15	
SV-03	24E2845-03	Soil Gas		- EPA TO-15	
SV-04	24E2845-04	Soil Gas		- EPA TO-15	
SV-05	24E2845-05	Soil Gas		- EPA TO-15	
Do not run	24E2845-06			-	
DUP	24E2845-07	Soil Gas		- EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA TO-15**Qualifications:**

- L-01 Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, Hexachlorobutadiene**

B375229-BS1

- L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:**2-Butanone (MEK), Chloromethane**

24E2845-01[SV-01], 24E2845-02[SV-02], 24E2845-03[SV-03], 24E2845-04[SV-04], 24E2845-05[SV-05], 24E2845-07[DUP], B375229-BLK1, B375229-BS1, B375229-DUP1

- L-05 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Naphthalene**

24E2845-01[SV-01], B375229-BS1

- V-05 Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**2-Butanone (MEK), Chloromethane**

24E2845-01[SV-01], 24E2845-02[SV-02], 24E2845-03[SV-03], 24E2845-04[SV-04], 24E2845-05[SV-05], 24E2845-07[DUP], B375229-BLK1, B375229-BS1, B375229-DUP1, S104873-CCV1

- V-35 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Naphthalene**

24E2845-01[SV-01], B375229-BS1, S104873-CCV1

- V-36 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, 1,4-Dioxane**

B375229-BS1, S104873-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-01
Sample ID: 24E2845-01
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 18:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1268
 Canister Size: 6 liter
 Flow Controller ID: 3765
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -12.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.81	0.10	0.031		2.6	0.32	0.099	2	5/22/24 14:23		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 14:23		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 14:23		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 14:23		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 14:23		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 14:23		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 14:23		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 14:23		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 14:23		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 14:23		KMC
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	5/22/24 14:23		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 14:23		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 14:23		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 14:23		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 14:23		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 14:23		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 14:23		KMC
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	5/22/24 14:23		KMC
Dichlorodifluoromethane (Freon 12)	ND	0.10	0.042		ND	0.49	0.21	2	5/22/24 14:23		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 14:23		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 14:23		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 14:23		KMC
cis-1,2-Dichloroethylene	0.90	0.10	0.048		3.6	0.40	0.19	2	5/22/24 14:23		KMC
trans-1,2-Dichloroethylene	0.15	0.10	0.047		0.60	0.40	0.19	2	5/22/24 14:23		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 14:23		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 14:23		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 14:23		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 14:23		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 14:23		KMC
Ethanol	4.7	4.0	2.7		8.9	7.5	5.0	2	5/22/24 14:23		KMC
Ethylbenzene	0.32	0.10	0.034		1.4	0.43	0.15	2	5/22/24 14:23		KMC
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 14:23		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 14:23		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 14:23		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 14:23		KMC
Methylene Chloride	0.31	1.0	0.27	J	1.1	3.5	0.93	2	5/22/24 14:23		KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 14:23		KMC
Naphthalene	0.088	0.10	0.081	L-05, V-35, J	0.46	0.52	0.43	2	5/22/24 14:23		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 14:23		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 14:23		KMC
Tetrachloroethylene	0.27	0.10	0.086		1.8	0.68	0.58	2	5/22/24 14:23		KMC
Toluene	0.45	0.10	0.050		1.7	0.38	0.19	2	5/22/24 14:23		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 14:23		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 14:23		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 14:23		KMC
Trichloroethylene	3.0	0.10	0.077		16	0.54	0.41	2	5/22/24 14:23		KMC
Trichlorofluoromethane (Freon 11)	0.18	0.40	0.041	J	1.0	2.2	0.23	2	5/22/24 14:23		KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-01
Sample ID: 24E2845-01
Sample Matrix: Soil Gas
Sampled: 5/20/2024 18:02

Sample Description/Location:
Sub Description/Location:
Canister ID: 1268
Canister Size: 6 liter
Flow Controller ID: 3765
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -12.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.40	0.027	J	0.55	3.1	0.21	2	5/22/24 14:23		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 14:23		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 14:23		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 14:23		KMC
Vinyl Chloride	1.3	0.10	0.051		3.3	0.26	0.13	2	5/22/24 14:23		KMC
m&p-Xylene	0.64	0.20	0.068		2.8	0.87	0.30	2	5/22/24 14:23		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 14:23		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.2	70-130	5/22/24 14:23
4-Bromofluorobenzene (2)	117	70-130	5/22/24 14:23

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-02
Sample ID: 24E2845-02
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 18:01

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2997
 Canister Size: 6 liter
 Flow Controller ID: 3754
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -10.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	1.0	0.10	0.031		3.3	0.32	0.099	2	5/22/24 14:53		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 14:53		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 14:53		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 14:53		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 14:53		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 14:53		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 14:53		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 14:53		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 14:53		KMC
Chloroethane	0.62	0.10	0.092		1.6	0.26	0.24	2	5/22/24 14:53		KMC
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	5/22/24 14:53		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 14:53		KMC
Cyclohexane	4.4	0.10	0.078		15	0.34	0.27	2	5/22/24 14:53		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 14:53		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 14:53		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 14:53		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 14:53		KMC
1,4-Dichlorobenzene	0.46	0.10	0.048		2.8	0.60	0.29	2	5/22/24 14:53		KMC
Dichlorodifluoromethane (Freon 12)	1.8	0.10	0.042		8.7	0.49	0.21	2	5/22/24 14:53		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 14:53		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 14:53		KMC
1,1-Dichloroethylene	74	0.10	0.070		290	0.40	0.28	2	5/22/24 14:53		KMC
cis-1,2-Dichloroethylene	180	1.5	0.73		720	5.9	2.9	30	5/23/24 8:53		KMC
trans-1,2-Dichloroethylene	2.8	0.10	0.047		11	0.40	0.19	2	5/22/24 14:53		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 14:53		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 14:53		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 14:53		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 14:53		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 14:53		KMC
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 14:53		KMC
Ethylbenzene	0.038	0.10	0.034	J	0.16	0.43	0.15	2	5/22/24 14:53		KMC
Heptane	0.88	0.10	0.063		3.6	0.41	0.26	2	5/22/24 14:53		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 14:53		KMC
Hexane	19	4.0	2.1		67	14	7.4	2	5/22/24 14:53		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 14:53		KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 14:53		KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 14:53		KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 14:53		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 14:53		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 14:53		KMC
Tetrachloroethylene	0.18	0.10	0.086		1.2	0.68	0.58	2	5/22/24 14:53		KMC
Toluene	0.34	0.10	0.050		1.3	0.38	0.19	2	5/22/24 14:53		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 14:53		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 14:53		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 14:53		KMC
Trichloroethylene	48	0.10	0.077		260	0.54	0.41	2	5/22/24 14:53		KMC
Trichlorofluoromethane (Freon 11)	ND	0.40	0.041		ND	2.2	0.23	2	5/22/24 14:53		KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-02
Sample ID: 24E2845-02
Sample Matrix: Soil Gas
Sampled: 5/20/2024 18:01

Sample Description/Location:
Sub Description/Location:
Canister ID: 2997
Canister Size: 6 liter
Flow Controller ID: 3754
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -10.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.027		ND	3.1	0.21	2	5/22/24 14:53	KMC	
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 14:53	KMC	
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 14:53	KMC	
2,2,4-Trimethylpentane	1.8	0.27	0.086		8.4	1.3	0.40	2	5/22/24 14:53	KMC	
Vinyl Chloride	1400	1.5	0.76		3500	3.8	1.9	30	5/23/24 8:53	KMC	
m&p-Xylene	0.090	0.20	0.068	J	0.39	0.87	0.30	2	5/22/24 14:53	KMC	
o-Xylene	0.056	0.10	0.031	J	0.24	0.43	0.14	2	5/22/24 14:53	KMC	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.6	70-130	5/23/24 8:53
4-Bromofluorobenzene (1)	97.6	70-130	5/22/24 14:53
4-Bromofluorobenzene (2)	103	70-130	5/23/24 8:53
4-Bromofluorobenzene (2)	108	70-130	5/22/24 14:53

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-03
Sample ID: 24E2845-03
Sample Matrix: Soil Gas
Sampled: 5/20/2024 17:58

Sample Description/Location:
Sub Description/Location:
Canister ID: 2069
Canister Size: 6 liter
Flow Controller ID: 3755
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -13.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.070	0.10	0.031	J	0.22	0.32	0.099	2	5/22/24 15:24		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 15:24		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 15:24		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 15:24		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 15:24		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 15:24		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 15:24		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 15:24		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 15:24		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 15:24		KMC
Chloroform	0.12	0.10	0.049		0.58	0.49	0.24	2	5/22/24 15:24		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 15:24		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 15:24		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 15:24		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 15:24		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 15:24		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 15:24		KMC
1,4-Dichlorobenzene	0.44	0.10	0.048		2.6	0.60	0.29	2	5/22/24 15:24		KMC
Dichlorodifluoromethane (Freon 12)	0.63	0.10	0.042		3.1	0.49	0.21	2	5/22/24 15:24		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 15:24		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 15:24		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 15:24		KMC
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 15:24		KMC
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 15:24		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 15:24		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 15:24		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 15:24		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 15:24		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 15:24		KMC
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 15:24		KMC
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 15:24		KMC
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 15:24		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 15:24		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 15:24		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 15:24		KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 15:24		KMC
4-Methyl-2-pentanone (MIBK)	0.10	0.10	0.048		0.42	0.41	0.19	2	5/22/24 15:24		KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 15:24		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 15:24		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 15:24		KMC
Tetrachloroethylene	0.086	0.10	0.086	J	0.58	0.68	0.58	2	5/22/24 15:24		KMC
Toluene	0.10	0.10	0.050		0.38	0.38	0.19	2	5/22/24 15:24		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 15:24		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 15:24		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 15:24		KMC
Trichloroethylene	0.27	0.10	0.077		1.5	0.54	0.41	2	5/22/24 15:24		KMC
Trichlorofluoromethane (Freon 11)	0.33	0.40	0.041	J	1.9	2.2	0.23	2	5/22/24 15:24		KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-03
Sample ID: 24E2845-03
Sample Matrix: Soil Gas
Sampled: 5/20/2024 17:58

Sample Description/Location:
Sub Description/Location:
Canister ID: 2069
Canister Size: 6 liter
Flow Controller ID: 3755
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -11
Receipt Vacuum(in Hg): -13.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.086	0.40	0.027	J	0.66	3.1	0.21	2	5/22/24 15:24		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 15:24		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 15:24		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 15:24		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 15:24		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 15:24		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 15:24		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.1	70-130	5/22/24 15:24
4-Bromofluorobenzene (2)	108	70-130	5/22/24 15:24

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-04
Sample ID: 24E2845-04
Sample Matrix: Soil Gas
Sampled: 5/20/2024 17:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1981
Canister Size: 6 liter
Flow Controller ID: 3772
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.58	0.10	0.031		1.8	0.32	0.099	2	5/22/24 15:53		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 15:53		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 15:53		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 15:53		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 15:53		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 15:53		KMC
tert-Butyl Alcohol (TBA)	0.36	0.41	0.15	J	1.1	1.2	0.47	2	5/22/24 15:53		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 15:53		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 15:53		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 15:53		KMC
Chloroform	3.2	0.10	0.049		16	0.49	0.24	2	5/22/24 15:53		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 15:53		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 15:53		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 15:53		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 15:53		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 15:53		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 15:53		KMC
1,4-Dichlorobenzene	0.42	0.10	0.048		2.5	0.60	0.29	2	5/22/24 15:53		KMC
Dichlorodifluoromethane (Freon 12)	0.87	0.10	0.042		4.3	0.49	0.21	2	5/22/24 15:53		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 15:53		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 15:53		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 15:53		KMC
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 15:53		KMC
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 15:53		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 15:53		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 15:53		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 15:53		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 15:53		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 15:53		KMC
Ethanol	8.0	4.0	2.7		15	7.5	5.0	2	5/22/24 15:53		KMC
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 15:53		KMC
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 15:53		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 15:53		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 15:53		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 15:53		KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 15:53		KMC
4-Methyl-2-pentanone (MIBK)	0.26	0.10	0.048		1.1	0.41	0.19	2	5/22/24 15:53		KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 15:53		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 15:53		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 15:53		KMC
Tetrachloroethylene	ND	0.10	0.086		ND	0.68	0.58	2	5/22/24 15:53		KMC
Toluene	0.72	0.10	0.050		2.7	0.38	0.19	2	5/22/24 15:53		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 15:53		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 15:53		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 15:53		KMC
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 15:53		KMC
Trichlorofluoromethane (Freon 11)	0.38	0.40	0.041	J	2.1	2.2	0.23	2	5/22/24 15:53		KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-04
Sample ID: 24E2845-04
Sample Matrix: Soil Gas
Sampled: 5/20/2024 17:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1981
Canister Size: 6 liter
Flow Controller ID: 3772
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -9
Receipt Vacuum(in Hg): -9.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time		
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.40	0.027	J	0.57	3.1	0.21	2	5/22/24 15:53	KMC	
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 15:53	KMC	
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 15:53	KMC	
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 15:53	KMC	
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 15:53	KMC	
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 15:53	KMC	
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 15:53	KMC	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.5	70-130	5/22/24 15:53
4-Bromofluorobenzene (2)	108	70-130	5/22/24 15:53

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-05
Sample ID: 24E2845-05
Sample Matrix: Soil Gas
Sampled: 5/20/2024 16:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 5106
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.040	0.10	0.031	J	0.13	0.32	0.099	2	5/22/24 16:52		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 16:52		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 16:52		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 16:52		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 16:52		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 16:52		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 16:52		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 16:52		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 16:52		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 16:52		KMC
Chloroform	3.0	0.10	0.049		15	0.49	0.24	2	5/22/24 16:52		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 16:52		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 16:52		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 16:52		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 16:52		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 16:52		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 16:52		KMC
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	5/22/24 16:52		KMC
Dichlorodifluoromethane (Freon 12)	2.6	0.10	0.042		13	0.49	0.21	2	5/22/24 16:52		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 16:52		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 16:52		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 16:52		KMC
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 16:52		KMC
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 16:52		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 16:52		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 16:52		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 16:52		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 16:52		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 16:52		KMC
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 16:52		KMC
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 16:52		KMC
Heptane	0.076	0.10	0.063	J	0.31	0.41	0.26	2	5/22/24 16:52		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 16:52		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 16:52		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 16:52		KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 16:52		KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 16:52		KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 16:52		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 16:52		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 16:52		KMC
Tetrachloroethylene	ND	0.10	0.086		ND	0.68	0.58	2	5/22/24 16:52		KMC
Toluene	0.076	0.10	0.050	J	0.29	0.38	0.19	2	5/22/24 16:52		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 16:52		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 16:52		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 16:52		KMC
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 16:52		KMC
Trichlorofluoromethane (Freon 11)	0.48	0.40	0.041		2.7	2.2	0.23	2	5/22/24 16:52		KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: SV-05
Sample ID: 24E2845-05
Sample Matrix: Soil Gas
Sampled: 5/20/2024 16:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 1663
Canister Size: 6 liter
Flow Controller ID: 5106
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.092	0.40	0.027	J	0.71	3.1	0.21	2	5/22/24 16:52		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 16:52		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 16:52		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 16:52		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 16:52		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 16:52		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 16:52		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.3	70-130	5/22/24 16:52
4-Bromofluorobenzene (2)	104	70-130	5/22/24 16:52

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
Date Received: 5/22/2024
Field Sample #: DUP
Sample ID: 24E2845-07
Sample Matrix: Soil Gas
Sampled: 5/20/2024 16:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 2463
Canister Size: 6 liter
Flow Controller ID: 5106
Sample Type: 8 hr

Work Order: 24E2845
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time		
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed	Analyst	
Benzene	0.052	0.10	0.031	J	0.17	0.32	0.099	2	5/22/24 17:22	KMC	
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 17:22	KMC	
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 17:22	KMC	
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 17:22	KMC	
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 17:22	KMC	
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 17:22	KMC	
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 17:22	KMC	
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 17:22	KMC	
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 17:22	KMC	
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 17:22	KMC	
Chloroform	2.8	0.10	0.049		14	0.49	0.24	2	5/22/24 17:22	KMC	
Chloromethane	0.17	0.20	0.13	L-03, V-05, J	0.36	0.41	0.28	2	5/22/24 17:22	KMC	
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 17:22	KMC	
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 17:22	KMC	
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 17:22	KMC	
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 17:22	KMC	
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 17:22	KMC	
1,4-Dichlorobenzene	0.14	0.10	0.048		0.84	0.60	0.29	2	5/22/24 17:22	KMC	
Dichlorodifluoromethane (Freon 12)	0.79	0.10	0.042		3.9	0.49	0.21	2	5/22/24 17:22	KMC	
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 17:22	KMC	
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 17:22	KMC	
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 17:22	KMC	
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 17:22	KMC	
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 17:22	KMC	
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 17:22	KMC	
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 17:22	KMC	
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 17:22	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 17:22	KMC	
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 17:22	KMC	
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 17:22	KMC	
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 17:22	KMC	
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 17:22	KMC	
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 17:22	KMC	
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 17:22	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 17:22	KMC	
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 17:22	KMC	
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 17:22	KMC	
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 17:22	KMC	
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 17:22	KMC	
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 17:22	KMC	
Tetrachloroethylene	0.088	0.10	0.086	J	0.60	0.68	0.58	2	5/22/24 17:22	KMC	
Toluene	0.066	0.10	0.050	J	0.25	0.38	0.19	2	5/22/24 17:22	KMC	
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 17:22	KMC	
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 17:22	KMC	
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 17:22	KMC	
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 17:22	KMC	
Trichlorofluoromethane (Freon 11)	0.39	0.40	0.041	J	2.2	2.2	0.23	2	5/22/24 17:22	KMC	

ANALYTICAL RESULTS

Project Location: Frewsburg, NY

Date Received: 5/22/2024

Field Sample #: DUP
Sample ID: 24E2845-07

Sample Matrix: Soil Gas

Sampled: 5/20/2024 16:46

Sample Description/Location:

Sub Description/Location:

Canister ID: 2463

Canister Size: 6 liter

Flow Controller ID: 5106

Sample Type: 8 hr

Work Order: 24E2845

Initial Vacuum(in Hg): -27

Final Vacuum(in Hg): -3

Receipt Vacuum(in Hg): -7.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.098	0.40	0.027	J	0.75	3.1	0.21	2	5/22/24 17:22		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 17:22		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 17:22		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 17:22		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 17:22		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 17:22		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 17:22		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.9	70-130	5/22/24 17:22
4-Bromofluorobenzene (2)	106	70-130	5/22/24 17:22

Sample Extraction Data**Prep Method: TO-15 Prep-EPA TO-15**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24E2845-01 [SV-01]	B375229	2	1	N/A	1000	200	200	05/22/24
24E2845-02 [SV-02]	B375229	1.5	1	N/A	1000	200	150	05/22/24
24E2845-02RE1 [SV-02]	B375229	1.5	1	N/A	1000	200	10	05/22/24
24E2845-03 [SV-03]	B375229	2	1	N/A	1000	200	200	05/22/24
24E2845-04 [SV-04]	B375229	1.5	1	N/A	1000	200	150	05/22/24
24E2845-05 [SV-05]	B375229	1.5	1	N/A	1000	200	150	05/22/24
24E2845-07 [DUP]	B375229	1.5	1	N/A	1000	200	150	05/22/24

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	

Batch B375229 - TO-15 Prep
Blank (B375229-BLK1)

Prepared & Analyzed: 05/22/24

Benzene	ND	0.034								
Benzyl chloride	ND	0.069								
Bromodichloromethane	ND	0.034								
Bromoform	ND	0.034								
Bromomethane	ND	0.034								
2-Butanone (MEK)	ND	1.4								L-03, V-05
tert-Butyl Alcohol (TBA)	ND	0.14								
Carbon Tetrachloride	ND	0.034								
Chlorobenzene	ND	0.034								
Chloroethane	ND	0.034								
Chloroform	ND	0.034								
Chloromethane	ND	0.069								L-03, V-05
Cyclohexane	ND	0.034								
Dibromochloromethane	ND	0.034								
1,2-Dibromoethane (EDB)	ND	0.034								
1,2-Dichlorobenzene	ND	0.034								
1,3-Dichlorobenzene	ND	0.034								
1,4-Dichlorobenzene	ND	0.034								
Dichlorodifluoromethane (Freon 12)	ND	0.034								
1,1-Dichloroethane	ND	0.034								
1,2-Dichloroethane	ND	0.034								
1,1-Dichloroethylene	ND	0.034								
cis-1,2-Dichloroethylene	ND	0.034								
trans-1,2-Dichloroethylene	ND	0.034								
1,2-Dichloropropane	ND	0.034								
cis-1,3-Dichloropropene	ND	0.034								
trans-1,3-Dichloropropene	ND	0.034								
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.034								
1,4-Dioxane	ND	0.34								
Ethanol	ND	1.4								
Ethylbenzene	ND	0.034								
Heptane	ND	0.034								
Hexachlorobutadiene	ND	0.034								
Hexane	ND	1.4								
Methyl tert-Butyl Ether (MTBE)	ND	0.034								
Methylene Chloride	ND	0.34								
4-Methyl-2-pentanone (MIBK)	ND	0.034								
Naphthalene	ND	0.034								
Styrene	ND	0.034								
1,1,2,2-Tetrachloroethane	ND	0.034								
Tetrachloroethylene	ND	0.034								
Toluene	ND	0.034								
1,2,4-Trichlorobenzene	ND	0.034								
1,1,1-Trichloroethane	ND	0.034								
1,1,2-Trichloroethane	ND	0.034								
Trichloroethylene	ND	0.034								

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

Batch B375229 - TO-15 Prep
Blank (B375229-BLK1)

Prepared & Analyzed: 05/22/24

Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.034
1,3,5-Trimethylbenzene	ND	0.034
2,2,4-Trimethylpentane	ND	0.092
Vinyl Chloride	ND	0.034
m&p-Xylene	ND	0.069
o-Xylene	ND	0.034

Surrogate: 4-Bromofluorobenzene (1)	7.39	8.00	92.4	70-130
Surrogate: 4-Bromofluorobenzene (2)	8.38	8.00	105	70-130

LCS (B375229-BS1)

Prepared & Analyzed: 05/22/24

Benzene	4.94	5.00	98.9	70-130	
Benzyl chloride	5.49	5.00	110	70-130	
Bromodichloromethane	4.58	5.00	91.7	70-130	
Bromoform	6.09	5.00	122	70-130	
Bromomethane	5.80	5.00	116	70-130	
2-Butanone (MEK)	3.27	5.00	65.4 *	70-130	L-03, V-05
Carbon Tetrachloride	5.14	5.00	103	70-130	
Chlorobenzene	4.73	5.00	94.5	70-130	
Chloroethane	5.50	5.00	110	70-130	
Chloroform	5.98	5.00	120	70-130	
Chloromethane	3.29	5.00	65.7 *	70-130	L-03, V-05
Cyclohexane	4.51	5.00	90.2	70-130	
Dibromochloromethane	5.47	5.00	109	70-130	
1,2-Dibromoethane (EDB)	4.92	5.00	98.4	70-130	
1,2-Dichlorobenzene	5.98	5.00	120	70-130	
1,3-Dichlorobenzene	6.40	5.00	128	70-130	
1,4-Dichlorobenzene	5.71	5.00	114	70-130	
Dichlorodifluoromethane (Freon 12)	5.52	5.00	110	70-130	
1,1-Dichloroethane	4.00	5.00	80.1	70-130	
1,2-Dichloroethane	5.44	5.00	109	70-130	
1,1-Dichloroethylene	5.14	5.00	103	70-130	
cis-1,2-Dichloroethylene	5.58	5.00	112	70-130	
trans-1,2-Dichloroethylene	3.98	5.00	79.6	70-130	
1,2-Dichloropropane	4.32	5.00	86.5	70-130	
cis-1,3-Dichloropropene	4.38	5.00	87.6	70-130	
trans-1,3-Dichloropropene	5.36	5.00	107	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.18	5.00	104	70-130	
1,4-Dioxane	6.07	5.00	121	70-130	V-36
Ethanol	5.53	5.00	111	70-130	
Ethylbenzene	4.79	5.00	95.8	70-130	
Heptane	4.03	5.00	80.6	70-130	
Hexachlorobutadiene	6.52	5.00	130	70-130	L-01
Hexane	4.27	5.00	85.4	70-130	

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B375229 - TO-15 Prep											
LCS (B375229-BS1)					Prepared & Analyzed: 05/22/24						
Methyl tert-Butyl Ether (MTBE)	4.55				5.00		90.9	70-130			
Methylene Chloride	4.04				5.00		80.9	70-130			
4-Methyl-2-pentanone (MIBK)	4.36				5.00		87.3	70-130			
Naphthalene	6.71				5.00		134	*	70-130		L-05, V-35
Styrene	5.32				5.00		106		70-130		
1,1,2,2-Tetrachloroethane	5.27				5.00		105		70-130		
Tetrachloroethylene	5.00				5.00		99.9		70-130		
Toluene	4.82				5.00		96.4		70-130		
1,2,4-Trichlorobenzene	6.77				5.00		135	*	70-130		L-01, V-36
1,1,1-Trichloroethane	4.46				5.00		89.1		70-130		
1,1,2-Trichloroethane	5.12				5.00		102		70-130		
Trichloroethylene	4.68				5.00		93.5		70-130		
Trichlorofluoromethane (Freon 11)	5.99				5.00		120		70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.68				5.00		114		70-130		
1,2,4-Trimethylbenzene	5.22				5.00		104		70-130		
1,3,5-Trimethylbenzene	6.28				5.00		126		70-130		
Vinyl Chloride	4.86				5.00		97.2		70-130		
m&p-Xylene	10.6				10.0		106		70-130		
o-Xylene	5.45				5.00		109		70-130		
Surrogate: 4-Bromofluorobenzene (1)	8.06				8.00		101		70-130		
LCS (B375229-BS2)					Prepared & Analyzed: 05/22/24						
tert-Butyl Alcohol (TBA)	2.21				2.06		107		70-130		
2,2,4-Trimethylpentane	1.36				1.34		101		70-130		
Surrogate: 4-Bromofluorobenzene (2)	8.70				8.00		109		70-130		
Duplicate (B375229-DUP1)			Source: 24E2845-04		Prepared & Analyzed: 05/22/24						
Benzene	0.58	0.10	1.9	0.32		0.58			1.03	25	
Benzyl chloride	ND	0.20	ND	1.0		ND				25	
Bromodichloromethane	ND	0.10	ND	0.67		ND				25	
Bromoform	ND	0.10	ND	1.0		ND				25	
Bromomethane	ND	0.10	ND	0.39		ND				25	
2-Butanone (MEK)	ND	4.0	ND	12		ND				25	L-03, V-05
tert-Butyl Alcohol (TBA)	0.33	0.41	0.99	1.2		0.36			8.80	25	J
Carbon Tetrachloride	ND	0.10	ND	0.63		ND				25	
Chlorobenzene	ND	0.10	ND	0.46		ND				25	
Chloroethane	ND	0.10	ND	0.26		ND				25	
Chloroform	3.2	0.10	16	0.49		3.2			0.876	25	
Chloromethane	ND	0.20	ND	0.41		ND				25	L-03, V-05
Cyclohexane	ND	0.10	ND	0.34		ND				25	
Dibromochloromethane	ND	0.10	ND	0.85		ND				25	
1,2-Dibromoethane (EDB)	ND	0.10	ND	0.77		ND				25	
1,2-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,3-Dichlorobenzene	ND	0.10	ND	0.60		ND				25	
1,4-Dichlorobenzene	0.40	0.10	2.4	0.60		0.42			4.38	25	
Dichlorodifluoromethane (Freon 12)	0.87	0.10	4.3	0.49		0.87			0.00	25	

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B375229 - TO-15 Prep											
Duplicate (B375229-DUP1)		Source: 24E2845-04			Prepared & Analyzed: 05/22/24						
1,1-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,2-Dichloroethane	ND	0.10	ND	0.40		ND				25	
1,1-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
cis-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
trans-1,2-Dichloroethylene	ND	0.10	ND	0.40		ND				25	
1,2-Dichloropropane	ND	0.10	ND	0.46		ND				25	
cis-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
trans-1,3-Dichloropropene	ND	0.10	ND	0.45		ND				25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	ND	0.70		ND				25	
1,4-Dioxane	ND	1.0	ND	3.6		ND				25	
Ethanol	8.1	4.0	15	7.5		8.0			0.372	25	
Ethylbenzene	ND	0.10	ND	0.43		ND				25	
Heptane	ND	0.10	ND	0.41		ND				25	
Hexachlorobutadiene	ND	0.10	ND	1.1		ND				25	
Hexane	ND	4.0	ND	14		ND				25	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	ND	0.36		ND				25	
Methylene Chloride	ND	1.0	ND	3.5		ND				25	
4-Methyl-2-pentanone (MIBK)	0.29	0.10	1.2	0.41		0.26			12.4	25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Styrene	ND	0.10	ND	0.43		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	ND	0.10	ND	0.68		ND				25	
Toluene	0.70	0.10	2.6	0.38		0.72			3.09	25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		ND				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	ND	0.10	ND	0.54		ND				25	
Trichlorofluoromethane (Freon 11)	0.37	0.40	2.1	2.2		0.38			2.70	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.40	0.61	3.1		0.074			7.79	25	
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
2,2,4-Trimethylpentane	ND	0.27	ND	1.3		ND				25	
Vinyl Chloride	ND	0.10	ND	0.26		ND				25	
m&p-Xylene	ND	0.20	ND	0.87		ND				25	
o-Xylene	ND	0.10	ND	0.43		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	7.51				8.00		93.8	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.44				8.00		106	70-130			

Note: Blank Subtraction is not performed unless otherwise noted

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

ANALYST

TPH Thomas P. Hnitecki
STATION Report Queue Station
KAM Kyle A. Murray
KMC Kristen M Couture

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (S103531-ICV1)			Lab File ID: K24A106019.D			Analyzed: 04/15/24 19:46			
Bromochloromethane (1)	87305	2.903	89107	2.903	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	195073	3.527	200182	3.527	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	177713	5.142	181661	5.142	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	178654	3.527	180118	3.527	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	50062	5.142	50793	5.143	99	60 - 140	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104873-CCV1)			Lab File ID: K24A143003.D			Analyzed: 05/22/24 10:10			
Bromochloromethane (1)	83244	2.903	89107	2.903	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	243135	3.527	200182	3.527	121	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	213664	5.142	181661	5.142	118	60 - 140	0.0000	+/-0.50	
LCS (B375229-BS1)			Lab File ID: K24A143004.D			Analyzed: 05/22/24 10:40			
Bromochloromethane (1)	79548	2.896	83244	2.903	96	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	244225	3.527	243135	3.527	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	214813	5.142	213664	5.142	101	60 - 140	0.0000	+/-0.50	
Calibration Check (S104873-CCV2)			Lab File ID: K24A143005.D			Analyzed: 05/22/24 11:09			
1,4-Difluorobenzene (2)	227026	3.527	180118	3.527	126	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	47267	5.142	50793	5.143	93	60 - 140	-0.0010	+/-0.50	
LCS (B375229-BS2)			Lab File ID: K24A143006.D			Analyzed: 05/22/24 11:37			
1,4-Difluorobenzene (2)	233179	3.528	227026	3.527	103	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (2)	47123	5.142	47267	5.142	100	60 - 140	0.0000	+/-0.50	
Blank (B375229-BLK1)			Lab File ID: K24A143009.D			Analyzed: 05/22/24 13:12			
Bromochloromethane (1)	76181	2.896	83244	2.903	92	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	217846	3.528	243135	3.527	90	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	201993	5.142	213664	5.142	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	218484	3.528	227026	3.527	96	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (2)	44189	5.142	47267	5.142	93	60 - 140	0.0000	+/-0.50	
SV-01 (24E2845-01)			Lab File ID: K24A143011.D			Analyzed: 05/22/24 14:23			
Bromochloromethane (1)	93273	2.903	83244	2.903	112	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	329498	3.565	243135	3.527	136	60 - 140	0.0380	+/-0.50	
Chlorobenzene-d5 (1)	258360	5.157	213664	5.142	121	60 - 140	0.0150	+/-0.50	
1,4-Difluorobenzene (2)	255612	3.565	227026	3.527	113	60 - 140	0.0380	+/-0.50	
Chlorobenzene-d5 (2)	55574	5.157	47267	5.142	118	60 - 140	0.0150	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SV-02 (24E2845-02) Lab File ID: K24A143012.D Analyzed: 05/22/24 14:53									
Bromochloromethane (1)	76978	2.911	83244	2.903	92	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	248825	3.535	243135	3.527	102	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	228743	5.15	213664	5.142	107	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (2)	253001	3.535	227026	3.527	111	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	51079	5.142	47267	5.142	108	60 - 140	0.0000	+/-0.50	
SV-03 (24E2845-03) Lab File ID: K24A143013.D Analyzed: 05/22/24 15:24									
Bromochloromethane (1)	76174	2.904	83244	2.903	92	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	223666	3.535	243135	3.527	92	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	208782	5.15	213664	5.142	98	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (2)	225405	3.535	227026	3.527	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	44863	5.142	47267	5.142	95	60 - 140	0.0000	+/-0.50	
SV-04 (24E2845-04) Lab File ID: K24A143014.D Analyzed: 05/22/24 15:53									
Bromochloromethane (1)	76594	2.911	83244	2.903	92	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	221535	3.535	243135	3.527	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	208399	5.149	213664	5.142	98	60 - 140	0.0070	+/-0.50	
1,4-Difluorobenzene (2)	224004	3.535	227026	3.527	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	45250	5.142	47267	5.142	96	60 - 140	0.0000	+/-0.50	
Duplicate (B375229-DUP1) Lab File ID: K24A143015.D Analyzed: 05/22/24 16:23									
Bromochloromethane (1)	77409	2.911	83244	2.903	93	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	220707	3.535	243135	3.527	91	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	210399	5.15	213664	5.142	98	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (2)	224259	3.535	227026	3.527	99	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	46238	5.142	47267	5.142	98	60 - 140	0.0000	+/-0.50	
SV-05 (24E2845-05) Lab File ID: K24A143016.D Analyzed: 05/22/24 16:52									
Bromochloromethane (1)	78001	2.903	83244	2.903	94	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	215970	3.535	243135	3.527	89	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	200582	5.149	213664	5.142	94	60 - 140	0.0070	+/-0.50	
1,4-Difluorobenzene (2)	217890	3.535	227026	3.527	96	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	44822	5.142	47267	5.142	95	60 - 140	0.0000	+/-0.50	
DUP (24E2845-07) Lab File ID: K24A143017.D Analyzed: 05/22/24 17:22									
Bromochloromethane (1)	76698	2.911	83244	2.903	92	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	216171	3.535	243135	3.527	89	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (1)	205734	5.15	213664	5.142	96	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (2)	218955	3.535	227026	3.527	96	60 - 140	0.0080	+/-0.50	
Chlorobenzene-d5 (2)	45241	5.15	47267	5.142	96	60 - 140	0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SV-02 (24E2845-02RE1) Lab File ID: K24A143020.D Analyzed: 05/23/24 08:53									
Bromochloromethane (1)	76624	2.904	83244	2.903	92	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	213762	3.527	243135	3.527	88	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	199883	5.143	213664	5.142	94	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (2)	215089	3.527	227026	3.527	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	44261	5.143	47267	5.142	94	60 - 140	0.0010	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S104873-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	4.89	0.8125705	0.7952323		-2.1	30
Benzyl chloride	A	5.00	4.66	0.6050113	0.6581024		-6.8	30
Bromodichloromethane	A	5.00	4.63	0.6600421	0.6117819		-7.3	30
Bromoform	A	5.00	5.81	0.4582029	0.5323349		16.2	30
Bromomethane	A	5.00	5.41	0.5997196	0.6483879		8.1	30
2-Butanone (MEK)	A	5.00	2.99	1.437234	0.8603335		-40.1	30 *
Carbon Tetrachloride	A	5.00	5.32	0.5360304	0.570409		6.4	30
Chlorobenzene	A	5.00	4.63	0.8437425	0.7810544		-7.4	30
Chloroethane	A	5.00	5.21	0.3972731	0.4139157		4.2	30
Chloroform	A	5.00	5.75	1.488916	1.711883		15.0	30
Chloromethane	A	5.00	3.18	0.7669907	0.4872423		-36.5	30 *
Cyclohexane	A	5.00	4.36	0.3462023	0.3019623		-12.8	30
Dibromochloromethane	A	5.00	5.32	0.5803333	0.6169837		6.3	30
1,2-Dibromoethane (EDB)	A	5.00	4.89	0.559033	0.54675		-2.2	30
1,2-Dichlorobenzene	A	5.00	5.13	0.5815736	0.5963532		2.5	30
1,3-Dichlorobenzene	A	5.00	5.48	0.6669087	0.731586		9.7	30
1,4-Dichlorobenzene	A	5.00	5.14	0.5759686	0.592242		2.8	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.38	1.759801	1.893652		7.6	30
1,1-Dichloroethane	A	5.00	3.81	1.482462	1.129057		-23.8	30
1,2-Dichloroethane	A	5.00	5.24	1.048043	1.0984		4.8	30
1,1-Dichloroethylene	A	5.00	4.87	1.292964	1.259584		-2.6	30
cis-1,2-Dichloroethylene	A	5.00	5.27	1.006326	1.061343		5.5	30
trans-1,2-Dichloroethylene	A	5.00	3.88	1.230032	0.953688		-22.5	30
1,2-Dichloropropane	A	5.00	4.24	0.3627084	0.3074769		-15.2	30
cis-1,3-Dichloropropene	A	5.00	4.60	0.4994679	0.459432		-8.0	30
trans-1,3-Dichloropropene	A	5.00	4.88	0.362027	0.3529891		-2.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.36	1.741838	1.868608		7.3	30
1,4-Dioxane	A	5.00	5.39	0.1289199	0.1390174		7.8	30
Ethanol	A	5.00	4.91	0.1510718	0.1483254		-1.8	30
Ethylbenzene	A	5.00	4.82	1.341114	1.293545		-3.5	30
Heptane	A	5.00	3.98	0.2939088	0.2338915		-20.4	30
Hexachlorobutadiene	A	5.00	5.51	0.3974328	0.4376666		10.1	30
Hexane	A	5.00	3.88	0.7974254	0.6181154		-22.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.28	1.842859	1.577608		-14.4	30
Methylene Chloride	A	5.00	3.96	0.8905306	0.7061842		-20.7	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.09	0.2515395	0.2059498		-18.1	30
Naphthalene	A	5.00	4.28	0.7608559	0.6592182		-13.4	30
Styrene	A	5.00	4.99	0.6931352	0.6918302		-0.2	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S104873-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,2,2-Tetrachloroethane	A	5.00	5.08	0.7949978	0.8085667		1.7	30
Tetrachloroethylene	A	5.00	4.96	0.4393819	0.4355025		-0.9	30
Toluene	A	5.00	4.81	1.064963	1.023888		-3.9	30
1,2,4-Trichlorobenzene	A	5.00	4.57	0.3145178	0.2872548		-8.7	30
1,1,1-Trichloroethane	A	5.00	4.71	0.5920208	0.557524		-5.8	30
1,1,2-Trichloroethane	A	5.00	5.15	0.3639298	0.3748465		3.0	30
Trichloroethylene	A	5.00	4.64	0.382826	0.3549041		-7.3	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.73	1.690812	1.939148		14.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.41	1.343977	1.455192		8.3	30
1,2,4-Trimethylbenzene	A	5.00	4.88	1.072241	1.047664		-2.3	30
1,3,5-Trimethylbenzene	A	5.00	5.45	0.9923743	1.082492		9.1	30
Vinyl Chloride	A	5.00	4.73	0.7854419	0.74328		-5.4	30
m&p-Xylene	A	10.0	10.3	1.08204	1.1192		3.4	30
o-Xylene	A	5.00	5.20	1.04291	1.085225		4.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA TO-15

S104873-CCV2

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butyl Alcohol (TBA)	A	2.06	2.11	1.101527	0.8425364		-23.5	30
2,2,4-Trimethylpentane	A	1.34	1.30	2.332189	1.945572		-16.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

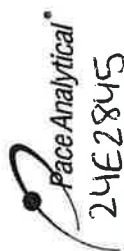
Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Benzene	FL,NJ,NY,ME,NH,VA
Benzyl chloride	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroethane	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Chloromethane	FL,NJ,NY,ME,NH,VA
Cyclohexane	NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NJ,NY,ME,NH,VA
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Heptane	NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Hexane	FL,NJ,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NJ,NY,ME,NH,VA

CERTIFICATIONS**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
2,2,4-Trimethylpentane	NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2024
FL	Florida Department of Health	E871027 NELAP	06/30/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024



Phone: 413-525-2332
Fax: 413-525-6405
www.pacelabs.com

Company Name: Groundwater & Env. (DEC)
Address: 716-796-3827
Phone: Keywell LLC VAC-AIR
Project Name: Frewsbury, NY
Project Location: 907016
Project Number: Thomas Palmer
Project Manager:
Pace Quote Name/Number: 2404135
Invoice Recipient: Owen Ogony
Sampled By:

Requested Turnaround Time: 7-Day ☐ 10-Day ☒
Due Date:
Rush-Approval Required: 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐
Data Delivery: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: ogy@owenogony.com
Fax To #:

Lab Use	Client Use	Collection Data	Duration	Flow Rate	Matrix	Volume
Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	m³/min L/min	Code	Liters m³
	SV-01	5/20/02	1802	0.125 SG	SG	6
	SV-02	1001	1401	0.125	SG	6
	SV-03	0958	1758	0.125	SG	6
	SV-04	0957	1757	0.125	SG	6
	SV-05	0946	1646	0.125	SG	6
	SV-06	0944	1700	0.125	SG	6
	DUP	0946	1646	0.125	SG	6

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:
SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other

Special Requirements:
MA MCP Required ☐
MA MCP Required ☐
MCP Certification Form Required ☐
CT MCP Required ☐
RCP Certification Form Required ☐
Other ☐

Detection Limit Requirements:
MA ☐
CT ☐
Other ☐

Project Entity:
Government ☐ Municipality ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

PCB ONLY:
Soxhlet ☐
Non Soxhlet ☐

NEIAC and AIHA-LAP, LLC Accredited

Relinquished by: (signature) [Signature]
Received by: (signature) [Signature]
Relinquished by: (signature) [Signature]
Received by: (signature) [Signature]
Relinquished by: (signature) [Signature]
Received by: (signature) [Signature]

Date/Time:
5/22/02 1905
5/22/02 1905
5/22/02 1905
5/22/02 1905
5/22/02 1905



DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist

Effective Date: 07/13/2023

Log In Back-Sheet

Client DEC Groundwater + Env.Project Keywell LLC VAC - Air

MCP/RCP Required _____

Deliverable Package Requirement _____

Location Frewsburg, NY

PWSID# (When Applicable) _____

Arrival Method CourierReceived By / Date / Time KMC 5/22/24 0730Back-Sheet By / Date / Time KMC 5/22/24 0845

Temperature Method _____ # _____

Temp $\leq 6^{\circ}\text{C}$ _____ Actual Temperature _____Rush Samples: Yes / No _____ Notify _____Short Hold: Yes / No _____ Notify _____**Notes regarding Samples/COC outside of SOP:**Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)
Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☐	☒
Received in Cooler	☐	☒
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Individually Certified Cans	☐	☒
Trip Blanks	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client	☒	Analysis	☒	Sampler Name	☒
Project	☒	IDs	☒	Collection Date/Time	☒

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	7	6L	6	8hr	Nut/Ferrule	6	IC Train	
Tedlar Bags					Tubing	25ft		
TO-17 Tubes					T-Connector	1	Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	1663	10		15		Regs #'s	5	5106	10		15	
1	1268	6	2403	11		16	1	3765	6	5106	11		16
2	2997	7		12		17	2	3754	7		12		17
3	2069	8		13		18	3	3755	8		13		18
4	1981	9		14		19	4	3772	9		14		19
Unused Media	4		9		14		Pufs/TO-17's	5		10		15	
1	2229	5		10		15	1		6		11		16
2	3764	6		11		16	2		7		12		17
3		7		12		17	3		8		13		18
4		8		13		18	4		9		14		19

Qualtrax ID: 127034

Page 1 of 1



Air Sampling Media Certificate of Analysis

Date Analyzed: 4/24/2024 Batch #: 24CC0397

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs:	BC2412	BC2069	

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: KMC 5/23/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 4/22/2024 Batch #: 24CC0390

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs:	BC1981	BC1663	

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: KMC 5/23/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 4/22/2024 Batch #: 24CC0386

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2997

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: KMC 5/23/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 4/19/2024 Batch #: 24CC0384

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2463

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

Special Notes:

Analyst Initials/Date: KMC 5/23/24

*Soil Vapor Intrusion Investigation
Keywell LLC Vac-Air Division
300 Falconer Road
Frewsburg, New York 14738
NYSDEC Site No. 907016*

Appendix E – Data Usability Summary Report

Project: NYSDEC 24E2845 Keywell LLC SVI
Laboratory: Con-Test
Work Order No: 24E2845
Fraction: Organic
Matrix: Indoor/ Outdoor Air
Report Date: 2/12/2025

This data usability summary report is based upon a review of analytical data generated for indoor and outdoor air samples. One field duplicate sample was submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The sample was analyzed for volatile organic compounds. The sample analyses were performed in accordance with the procedures outlined in EPA Method TO-15 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the USEPA Region II "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15", SOP No. HW-31, revision 6, June 2014. The quality control requirements specified in the analysis method and associated acceptance criteria were also used to evaluate the data. The following parameters were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation/Sample Receipt
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
	•	Surrogate Compound Recoveries
	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Canister Certification
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

February 12, 2025
Date

1.0 DATA COMPLETENESS

The NYSDEC ASP Category B deliverable data were provided by the laboratory.

The canister certification data was missing from the data package. The laboratory was contacted for this missing information.

2.0 CHAIN OF CUSTODY DOCUMENTATION/SAMPLE RECEIPT

The chain of custody was complete. No problems were noted at sample receipt.

3.0 HOLDING TIMES

All criteria were met. No qualifiers were applied.

4.0 INSTRUMENT PERFORMANCE

All criteria were met. No qualifiers were applied.

5.0 INITIAL AND CONTINUING CALIBRATIONS

The continuing calibration precision criterion (the percent difference between initial and continuing RRFs $\leq$ 30 percent) was exceeded for the following volatile continuing calibration standards. This indicates a lack of instrument stability for these compounds. Positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. Nondetect results are marked "UJ".

Calibration Standard	Compound	%Difference	Associated Samples
S104873-CCV1 (File ID K24A143003.D)	2-Butanone Chloromethane	-40.1 -36.5	All Samples

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

No compounds were detected in the associated laboratory method blank.

Trip blanks and field blanks were not submitted with the samples. This should be noted when assessing the data.

7.0 *SURROGATE COMPOUNDS*

This parameter is not applicable to the analyses completed.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

This parameter is not applicable to the analyses completed.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples SV-05-20240520 and DUP-20240520 were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for these duplicate samples are presented in Table 2.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

The following table summarizes the volatile laboratory control sample (LCS) results that did not meet the indicated acceptance limits:

Compound	LCS (B375229- BS1) %REC	QC Limits
2-Butanone	65.4	70-130
Chloromethane	65.7	70-130

The unacceptable recoveries for the above compounds suggest inefficiencies with the analytical processes. All samples were associated with the unacceptable LCS. Results for the compounds were qualified previously due to continuing calibration.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *CANISTER CERTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

14.0 *QUANTITATION/REPORTING LIMITS*

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method TO-15, "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", Second Edition, EPA/625/R-96/010b, January 1999

Table 1 Data Usability Summary Report
NYSDEC 24E2845 Keywell LLC SVI
Soil Vapor Sampling
Con-Test Work Order No. 24E2845

Analyses Performed				
Sample ID	Lab ID	Collection Date	Matrix	TO-15
SV-01-20240520	24E2845-01	5/22/2024	Soil Vapor	X
SV-02-20240520	24E2845-02	5/22/2024	Soil Vapor	X
SV-03-20240520	24E2845-03	5/22/2024	Soil Vapor	X
SV-04-20240520	24E2845-04	5/22/2024	Soil Vapor	X
SV-05-20240520	24E2845-05	5/22/2024	Soil Vapor	X
DUP-20240520	24E2845-07	5/22/2024	Soil Vapor	X

Table 2 Field Duplicate Sample Results for Organic Analyses
Soil Vapor Samples SV-05-20240520 and DUP-20240520

Compound	SV-05-20240520 Result (µg/m ³)		DUP-20240520 Result (µg/m ³)		RPD
1,4-Dichlorobenzene			0.84		NC
Toluene	0.29	J	0.25	J	15
Tetrachloroethylene	ND		0.6	J	NC
N-Heptane	0.31	J	ND		NC
Chloroform	15		14		7
Benzene	0.13	J	0.17	J	27
Chloromethane	ND		0.36	J	NC
Trichlorofluoromethane	2.7		2.2	J	20
Dichlorodifluoromethane	13		ND		NC
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.71	J	0.75	J	5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-01
Sample ID: 24E2845-01
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 18:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1268
 Canister Size: 6 liter
 Flow Controller ID: 3765
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -12.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.81	0.10	0.031		2.6	0.32	0.099	2	5/22/24 14:23		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 14:23		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 14:23		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 14:23		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 14:23		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 14:23		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 14:23		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 14:23		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 14:23		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 14:23		KMC
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	5/22/24 14:23		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 14:23		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 14:23		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 14:23		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 14:23		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 14:23		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 14:23		KMC
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	5/22/24 14:23		KMC
Dichlorodifluoromethane (Freon 12)	ND	0.10	0.042		ND	0.49	0.21	2	5/22/24 14:23		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 14:23		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 14:23		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 14:23		KMC
cis-1,2-Dichloroethylene	0.90	0.10	0.048		3.6	0.40	0.19	2	5/22/24 14:23		KMC
trans-1,2-Dichloroethylene	0.15	0.10	0.047		0.60	0.40	0.19	2	5/22/24 14:23		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 14:23		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 14:23		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 14:23		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 14:23		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 14:23		KMC
Ethanol	4.7	4.0	2.7		8.9	7.5	5.0	2	5/22/24 14:23		KMC
Ethylbenzene	0.32	0.10	0.034		1.4	0.43	0.15	2	5/22/24 14:23		KMC
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 14:23		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 14:23		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 14:23		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 14:23		KMC
Methylene Chloride	0.31	1.0	0.27	J	1.1	3.5	0.93	2	5/22/24 14:23		KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 14:23		KMC
Naphthalene	0.088	0.10	0.081	L-05, V-35, J	0.46	0.52	0.43	2	5/22/24 14:23		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 14:23		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 14:23		KMC
Tetrachloroethylene	0.27	0.10	0.086		1.8	0.68	0.58	2	5/22/24 14:23		KMC
Toluene	0.45	0.10	0.050		1.7	0.38	0.19	2	5/22/24 14:23		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 14:23		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 14:23		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 14:23		KMC
Trichloroethylene	3.0	0.10	0.077		16	0.54	0.41	2	5/22/24 14:23		KMC
Trichlorofluoromethane (Freon 11)	0.18	0.40	0.041	J	1.0	2.2	0.23	2	5/22/24 14:23		KMC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-01
Sample ID: 24E2845-01
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 18:02

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1268
 Canister Size: 6 liter
 Flow Controller ID: 3765
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -12.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.072	0.40	0.027	J	0.55	3.1	0.21	2	5/22/24 14:23		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 14:23		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 14:23		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 14:23		KMC
Vinyl Chloride	1.3	0.10	0.051		3.3	0.26	0.13	2	5/22/24 14:23		KMC
m&p-Xylene	0.64	0.20	0.068		2.8	0.87	0.30	2	5/22/24 14:23		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 14:23		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.2	70-130	5/22/24 14:23
4-Bromofluorobenzene (2)	117	70-130	5/22/24 14:23

SM
5/22/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-02
Sample ID: 24E2845-02
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 18:01

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2997
 Canister Size: 6 liter
 Flow Controller ID: 3754
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -10.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Date/Time		
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	Analyst
Benzene	1.0	0.10	0.031		3.3	0.32	0.099	2	5/22/24 14:53	KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 14:53	KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 14:53	KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 14:53	KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 14:53	KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 14:53	KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 14:53	KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 14:53	KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 14:53	KMC
Chloroethane	0.62	0.10	0.092		1.6	0.26	0.24	2	5/22/24 14:53	KMC
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	5/22/24 14:53	KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 14:53	KMC
Cyclohexane	4.4	0.10	0.078		15	0.34	0.27	2	5/22/24 14:53	KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 14:53	KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 14:53	KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 14:53	KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 14:53	KMC
1,4-Dichlorobenzene	0.46	0.10	0.048		2.8	0.60	0.29	2	5/22/24 14:53	KMC
Dichlorodifluoromethane (Freon 12)	1.8	0.10	0.042		8.7	0.49	0.21	2	5/22/24 14:53	KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 14:53	KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 14:53	KMC
1,1-Dichloroethylene	74	0.10	0.070		290	0.40	0.28	2	5/22/24 14:53	KMC
cis-1,2-Dichloroethylene	180	1.5	0.73		720	5.9	2.9	30	5/23/24 8:53	KMC
trans-1,2-Dichloroethylene	2.8	0.10	0.047		11	0.40	0.19	2	5/22/24 14:53	KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 14:53	KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 14:53	KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 14:53	KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 14:53	KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 14:53	KMC
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 14:53	KMC
Ethylbenzene	0.038	0.10	0.034	J	0.16	0.43	0.15	2	5/22/24 14:53	KMC
Heptane	0.88	0.10	0.063		3.6	0.41	0.26	2	5/22/24 14:53	KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 14:53	KMC
Hexane	19	4.0	2.1		67	14	7.4	2	5/22/24 14:53	KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 14:53	KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 14:53	KMC
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 14:53	KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 14:53	KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 14:53	KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 14:53	KMC
Tetrachloroethylene	0.18	0.10	0.086		1.2	0.68	0.58	2	5/22/24 14:53	KMC
Toluene	0.34	0.10	0.050		1.3	0.38	0.19	2	5/22/24 14:53	KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 14:53	KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 14:53	KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 14:53	KMC
Trichloroethylene	48	0.10	0.077		260	0.54	0.41	2	5/22/24 14:53	KMC
Trichlorofluoromethane (Freon 11)	ND	0.40	0.041		ND	2.2	0.23	2	5/22/24 14:53	KMC

ANALYTICAL RESULTS

Project Location: Frewsburg, NY	Sample Description/Location:	Work Order: 24E2845
Date Received: 5/22/2024	Sub Description/Location:	Initial Vacuum(in Hg): -29
Field Sample #: SV-02	Canister ID: 2997	Final Vacuum(in Hg): -8
Sample ID: 24E2845-02	Canister Size: 6 liter	Receipt Vacuum(in Hg): -10.0
Sample Matrix: Soil Gas	Flow Controller ID: 3754	Flow Controller Type: Fixed-Orifice
Sampled: 5/20/2024 18:01	Sample Type: 8 hr	Flow Controller Calibration
		RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.40	0.027		ND	3.1	0.21	2	5/22/24 14:53		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 14:53		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 14:53		KMC
2,2,4-Trimethylpentane	1.8	0.27	0.086		8.4	1.3	0.40	2	5/22/24 14:53		KMC
Vinyl Chloride	1400	1.5	0.76		3500	3.8	1.9	30	5/23/24 8:53		KMC
m&p-Xylene	0.090	0.20	0.068	J	0.39	0.87	0.30	2	5/22/24 14:53		KMC
o-Xylene	0.056	0.10	0.031	J	0.24	0.43	0.14	2	5/22/24 14:53		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	91.6	70-130	5/23/24 8:53
4-Bromofluorobenzene (1)	97.6	70-130	5/22/24 14:53
4-Bromofluorobenzene (2)	103	70-130	5/23/24 8:53
4-Bromofluorobenzene (2)	108	70-130	5/22/24 14:53

SM
5/12/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-03
Sample ID: 24E2845-03
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 17:58

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2069
 Canister Size: 6 liter
 Flow Controller ID: 3755
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -13.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.070	0.10	0.031	J	0.22	0.32	0.099	2	5/22/24 15:24		KMC
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 15:24		KMC
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 15:24		KMC
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 15:24		KMC
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 15:24		KMC
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 15:24		KMC
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 15:24		KMC
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 15:24		KMC
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 15:24		KMC
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 15:24		KMC
Chloroform	0.12	0.10	0.049		0.58	0.49	0.24	2	5/22/24 15:24		KMC
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 15:24		KMC
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 15:24		KMC
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 15:24		KMC
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 15:24		KMC
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 15:24		KMC
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 15:24		KMC
1,4-Dichlorobenzene	0.44	0.10	0.048		2.6	0.60	0.29	2	5/22/24 15:24		KMC
Dichlorodifluoromethane (Freon 12)	0.63	0.10	0.042		3.1	0.49	0.21	2	5/22/24 15:24		KMC
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 15:24		KMC
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 15:24		KMC
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 15:24		KMC
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 15:24		KMC
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 15:24		KMC
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 15:24		KMC
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 15:24		KMC
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 15:24		KMC
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 15:24		KMC
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 15:24		KMC
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 15:24		KMC
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 15:24		KMC
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 15:24		KMC
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 15:24		KMC
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 15:24		KMC
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 15:24		KMC
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 15:24		KMC
4-Methyl-2-pentanone (MIBK)	0.10	0.10	0.048		0.42	0.41	0.19	2	5/22/24 15:24		KMC
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 15:24		KMC
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 15:24		KMC
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 15:24		KMC
Tetrachloroethylene	0.086	0.10	0.086	J	0.58	0.68	0.58	2	5/22/24 15:24		KMC
Toluene	0.10	0.10	0.050		0.38	0.38	0.19	2	5/22/24 15:24		KMC
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 15:24		KMC
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 15:24		KMC
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 15:24		KMC
Trichloroethylene	0.27	0.10	0.077		1.5	0.54	0.41	2	5/22/24 15:24		KMC
Trichlorofluoromethane (Freon 11)	0.33	0.40	0.041	J	1.9	2.2	0.23	2	5/22/24 15:24		KMC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-03
Sample ID: 24E2845-03
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 17:58

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2069
 Canister Size: 6 liter
 Flow Controller ID: 3755
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -13.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.086	0.40	0.027	J	0.66	3.1	0.21	2	5/22/24 15:24		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 15:24		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 15:24		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 15:24		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 15:24		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 15:24		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 15:24		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.1	70-130	5/22/24 15:24
4-Bromofluorobenzene (2)	108	70-130	5/22/24 15:24

SMT
 5/22/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-04
Sample ID: 24E2845-04
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 17:57

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1981
 Canister Size: 6 liter
 Flow Controller ID: 3772
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.58	0.10	0.031		1.8	0.32	0.099	2	5/22/24 15:53	KMC	
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 15:53	KMC	
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 15:53	KMC	
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 15:53	KMC	
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 15:53	KMC	
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 15:53	KMC	
tert-Butyl Alcohol (TBA)	0.36	0.41	0.15	J	1.1	1.2	0.47	2	5/22/24 15:53	KMC	
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 15:53	KMC	
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 15:53	KMC	
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 15:53	KMC	
Chloroform	3.2	0.10	0.049		16	0.49	0.24	2	5/22/24 15:53	KMC	
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 15:53	KMC	
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 15:53	KMC	
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 15:53	KMC	
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 15:53	KMC	
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 15:53	KMC	
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 15:53	KMC	
1,4-Dichlorobenzene	0.42	0.10	0.048		2.5	0.60	0.29	2	5/22/24 15:53	KMC	
Dichlorodifluoromethane (Freon 12)	0.87	0.10	0.042		4.3	0.49	0.21	2	5/22/24 15:53	KMC	
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 15:53	KMC	
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 15:53	KMC	
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 15:53	KMC	
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 15:53	KMC	
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 15:53	KMC	
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 15:53	KMC	
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 15:53	KMC	
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 15:53	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 15:53	KMC	
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 15:53	KMC	
Ethanol	8.0	4.0	2.7		15	7.5	5.0	2	5/22/24 15:53	KMC	
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 15:53	KMC	
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 15:53	KMC	
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 15:53	KMC	
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 15:53	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 15:53	KMC	
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 15:53	KMC	
4-Methyl-2-pentanone (MIBK)	0.26	0.10	0.048		1.1	0.41	0.19	2	5/22/24 15:53	KMC	
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 15:53	KMC	
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 15:53	KMC	
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 15:53	KMC	
Tetrachloroethylene	ND	0.10	0.086		ND	0.68	0.58	2	5/22/24 15:53	KMC	
Toluene	0.72	0.10	0.050		2.7	0.38	0.19	2	5/22/24 15:53	KMC	
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 15:53	KMC	
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 15:53	KMC	
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 15:53	KMC	
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 15:53	KMC	
Trichlorofluoromethane (Freon 11)	0.38	0.40	0.041	J	2.1	2.2	0.23	2	5/22/24 15:53	KMC	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-04
Sample ID: 24E2845-04
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 17:57

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1981
 Canister Size: 6 liter
 Flow Controller ID: 3772
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -9
 Receipt Vacuum(in Hg): -9.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.074	0.40	0.027	J	0.57	3.1	0.21	2	5/22/24 15:53		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 15:53		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 15:53		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 15:53		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 15:53		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 15:53		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 15:53		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.5	70-130	5/22/24 15:53
4-Bromofluorobenzene (2)	108	70-130	5/22/24 15:53

SM
5/22/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-05
Sample ID: 24E2845-05
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 16:46

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1663
 Canister Size: 6 liter
 Flow Controller ID: 5106
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -7.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.040	0.10	0.031	J	0.13	0.32	0.099	2	5/22/24 16:52	KMC	
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 16:52	KMC	
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 16:52	KMC	
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 16:52	KMC	
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 16:52	KMC	
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 16:52	KMC	
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 16:52	KMC	
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 16:52	KMC	
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 16:52	KMC	
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 16:52	KMC	
Chloroform	3.0	0.10	0.049		15	0.49	0.24	2	5/22/24 16:52	KMC	
Chloromethane	ND	0.20	0.13	L-03, V-05	ND	0.41	0.28	2	5/22/24 16:52	KMC	
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 16:52	KMC	
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 16:52	KMC	
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 16:52	KMC	
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 16:52	KMC	
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 16:52	KMC	
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	5/22/24 16:52	KMC	
Dichlorodifluoromethane (Freon 12)	2.6	0.10	0.042		13	0.49	0.21	2	5/22/24 16:52	KMC	
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 16:52	KMC	
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 16:52	KMC	
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 16:52	KMC	
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 16:52	KMC	
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 16:52	KMC	
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 16:52	KMC	
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 16:52	KMC	
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 16:52	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 16:52	KMC	
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 16:52	KMC	
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 16:52	KMC	
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 16:52	KMC	
Heptane	0.076	0.10	0.063	J	0.31	0.41	0.26	2	5/22/24 16:52	KMC	
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 16:52	KMC	
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 16:52	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 16:52	KMC	
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 16:52	KMC	
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 16:52	KMC	
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 16:52	KMC	
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 16:52	KMC	
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 16:52	KMC	
Tetrachloroethylene	ND	0.10	0.086		ND	0.68	0.58	2	5/22/24 16:52	KMC	
Toluene	0.076	0.10	0.050	J	0.29	0.38	0.19	2	5/22/24 16:52	KMC	
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 16:52	KMC	
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 16:52	KMC	
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 16:52	KMC	
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 16:52	KMC	
Trichlorofluoromethane (Freon 11)	0.48	0.40	0.041		2.7	2.2	0.23	2	5/22/24 16:52	KMC	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: SV-05
Sample ID: 24E2845-05
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 16:46

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1663
 Canister Size: 6 liter
 Flow Controller ID: 5106
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -7.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.092	0.40	0.027	J	0.71	3.1	0.21	2	5/22/24 16:52		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 16:52		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 16:52		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 16:52		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 16:52		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 16:52		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 16:52		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.3	70-130	5/22/24 16:52
4-Bromofluorobenzene (2)	104	70-130	5/22/24 16:52

SM
5/22/24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY

Date Received: 5/22/2024

Field Sample #: DUP

Sample ID: 24E2845-07

Sample Matrix: Soil Gas

Sampled: 5/20/2024 16:46

Sample Description/Location:

Sub Description/Location:

Canister ID: 2463

Canister Size: 6 liter

Flow Controller ID: 5106

Sample Type: 8 hr

Work Order: 24E2845

Initial Vacuum(in Hg): -27

Final Vacuum(in Hg): -3

Receipt Vacuum(in Hg): -7.2

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Benzene	0.052	0.10	0.031	J	0.17	0.32	0.099	2	5/22/24 17:22	KMC	
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	5/22/24 17:22	KMC	
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	5/22/24 17:22	KMC	
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	5/22/24 17:22	KMC	
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	5/22/24 17:22	KMC	
2-Butanone (MEK)	ND	4.0	2.0	L-03, V-05	ND	12	5.8	2	5/22/24 17:22	KMC	
tert-Butyl Alcohol (TBA)	ND	0.41	0.15		ND	1.2	0.47	2	5/22/24 17:22	KMC	
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	5/22/24 17:22	KMC	
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	5/22/24 17:22	KMC	
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	5/22/24 17:22	KMC	
Chloroform	2.8	0.10	0.049		14	0.49	0.24	2	5/22/24 17:22	KMC	
Chloromethane	0.17	0.20	0.13	L-03, V-05, J	0.36	0.41	0.28	2	5/22/24 17:22	KMC	
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	5/22/24 17:22	KMC	
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	5/22/24 17:22	KMC	
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	5/22/24 17:22	KMC	
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	5/22/24 17:22	KMC	
1,3-Dichlorobenzene	ND	0.10	0.030		ND	0.60	0.18	2	5/22/24 17:22	KMC	
1,4-Dichlorobenzene	0.14	0.10	0.048		0.84	0.60	0.29	2	5/22/24 17:22	KMC	
Dichlorodifluoromethane (Freon 12)	0.79	0.10	0.042		3.9	0.49	0.21	2	5/22/24 17:22	KMC	
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	5/22/24 17:22	KMC	
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	5/22/24 17:22	KMC	
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	5/22/24 17:22	KMC	
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	5/22/24 17:22	KMC	
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	5/22/24 17:22	KMC	
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	5/22/24 17:22	KMC	
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	5/22/24 17:22	KMC	
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	5/22/24 17:22	KMC	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	5/22/24 17:22	KMC	
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	5/22/24 17:22	KMC	
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	5/22/24 17:22	KMC	
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	5/22/24 17:22	KMC	
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	5/22/24 17:22	KMC	
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	5/22/24 17:22	KMC	
Hexane	ND	4.0	2.1		ND	14	7.4	2	5/22/24 17:22	KMC	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	5/22/24 17:22	KMC	
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	5/22/24 17:22	KMC	
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.048		ND	0.41	0.19	2	5/22/24 17:22	KMC	
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	5/22/24 17:22	KMC	
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	5/22/24 17:22	KMC	
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	5/22/24 17:22	KMC	
Tetrachloroethylene	0.088	0.10	0.086	J	0.60	0.68	0.58	2	5/22/24 17:22	KMC	
Toluene	0.066	0.10	0.050	J	0.25	0.38	0.19	2	5/22/24 17:22	KMC	
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	5/22/24 17:22	KMC	
1,1,1-Trichloroethane	ND	0.10	0.045		ND	0.55	0.25	2	5/22/24 17:22	KMC	
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	5/22/24 17:22	KMC	
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	5/22/24 17:22	KMC	
Trichlorofluoromethane (Freon 11)	0.39	0.40	0.041	J	2.2	2.2	0.23	2	5/22/24 17:22	KMC	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Frewsburg, NY
 Date Received: 5/22/2024
Field Sample #: DUP
Sample ID: 24E2845-07
 Sample Matrix: Soil Gas
 Sampled: 5/20/2024 16:46

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2463
 Canister Size: 6 liter
 Flow Controller ID: 5106
 Sample Type: 8 hr

Work Order: 24E2845
 Initial Vacuum(in Hg): -27
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -7.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	Results	ppbv		Flag/Qual	Results	ug/m3		Dilution	Date/Time		Analyst
		RL	MDL			RL	MDL		Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.098	0.40	0.027	J	0.75	3.1	0.21	2	5/22/24 17:22		KMC
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	5/22/24 17:22		KMC
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	5/22/24 17:22		KMC
2,2,4-Trimethylpentane	ND	0.27	0.086		ND	1.3	0.40	2	5/22/24 17:22		KMC
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	5/22/24 17:22		KMC
m&p-Xylene	ND	0.20	0.068		ND	0.87	0.30	2	5/22/24 17:22		KMC
o-Xylene	ND	0.10	0.031		ND	0.43	0.14	2	5/22/24 17:22		KMC

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	93.9	70-130	5/22/24 17:22
4-Bromofluorobenzene (2)	106	70-130	5/22/24 17:22

SM
5/22/24