



Groundwater & Environmental Services, Inc.

6010 North Bailey Avenue
Amherst, NY 14226

T. 800.287.7857

June 26, 2024

Ms. Megan Kuczka
Environmental Program Specialist 1
NYSDEC Division of Environmental Remediation
700 Delaware Avenue
Buffalo, New York 14209

**RE: Operating Unit OU-2 East, C915201B
Summary Report: February 2024 Sub-Slab/Subgrade
and Indoor/Outdoor Air Investigation – Revised June 26, 2024
Buckeye Buffalo Terminal (BETBO)
625 Elk Street, Buffalo, New York 14210**

Dear Ms. Kuczka:

Buckeye Terminals, LLC, (Buckeye) retained Groundwater & Environmental Services, Inc., (GES) to voluntarily conduct a sub-slab/subgrade and indoor/outdoor air investigation at the Buckeye Buffalo Terminal (the Site) located within Operating Unit OU-2 East on February 29, 2024. An initial sub-slab and indoor air sampling event was conducted in September 2023 by GES on behalf of Buckeye that involved three (3) paired sample locations (i.e., “Office”, “Bathroom”, “Driver’s Bathroom”). The findings and results of the September 2023 investigation were summarized in the GES *September 2023 Sub-Slab and Indoor Air Investigation Summary Report*, revised dated April 15, 2024.

The February 2024 sub-slab/subgrade and indoor/outdoor air sampling activities were conducted during the 2023-2024 heating season period at five (5) paired locations (i.e., “Office”, “Bathroom”, “Driver’s Bathroom”, “Locker Room”, and “Outdoor”). It should be noted that the paired “Locker Room” and “Outdoor” sample locations were additional locations sampled in February 2024 that were not sampled during the September 2023 investigation. The “Locker Room” and “Outdoor” sample locations were sampled in February 2024 at the request of the New York State Department of Environmental Conservation (NYSDEC) in an electronic mail correspondence dated February 16, 2024. A site map showing the interior layout of the office building with respect to the four (4) indoor paired sample locations and one (1) outdoor paired sample location is provided as **Figure 1** in **Attachment A**. A duplicate sample also was collected in February 2024 as a sub-slab sample type from the “Bathroom”. The laboratory

analytical data results are presented in **Table 1**, **Table 2**, and **Table 3** provided in **Attachment B**. The laboratory analytical report is included as **Attachment C** and the Data Usability Summary Report (DUSR) provided in **Attachment D**.

The sub-slab sample locations in the “Bathroom” and “Office” were in good condition with no visible staining or cracks observed in the flooring. The sub-slab sample location in the “Locker Room” was located in the concrete floor slab with an approximate 4-foot-long crack present in close proximity to the sub-slab sample location. The sub-slab sample location north of the “Driver’s Bathroom” was located in a concrete floor with a visible crack located approximately one (1) foot north of the sub-slab sample location. No leaks or deficiencies were noted during the February 2024 Helium tracer testing conducted at all four (4) indoor sub-slab sample locations and one (1) outdoor subgrade sample location. The approximate locations of the floor drains present inside the office building are shown in **Figure 1**.

Indoor/outdoor air and sub-slab/subgrade field screening was conducted with a photoionization detector (PID) meter at the four (4) indoor sample locations and one (1) outdoor sample location during the building survey on February 26, 2024, and again prior to the initiation of the air and vapor sampling event conducted on February 29, 2024. A PID reading of 317 parts per billion (ppb) was observed from scanning the interior of the product storage cabinet on February 26, 2024. PID readings were not collected from the floor cracks or floor drains on February 26, or 29, 2024. The sub-slab/subgrade seal testing, sub-slab/subgrade and indoor/outdoor air screening and summa canister data are summarized in **Table 4** provided in **Attachment B**. A photographic log of the product inventory observed inside the office building is provided in **Attachment E**.

The February 2024 sub-slab/subgrade and indoor/outdoor air analytical results were compared to the New York State Department of Health (NYSDOH) Soil Vapor/Air Matrices A, B, C, D, E, and F, which are summarized in **Table 5** through **Table 10** provided in **Attachment B**. Based on the sub-slab/subgrade and indoor/outdoor vapor analytical data comparison to Matrices B, C, and F, it was determined that no further action was required for any of the locations sampled in February 2024 relative to the analytes identified in the forgoing Matrices.

The following future actions are recommended based on the February 2024 data comparison to Matrices A, D, and E:

- “Office” sample location: Additional indoor and sub-slab sampling of Trichloroethene (TCE) is recommended based on the February 2024 TCE

concentration detected in the “Office” sub-slab sample (**Matrix A – Table 5**). Despite sampling returning a non-detect result, the reporting limit is above the first threshold value for indoor air in Matrix A, and accordingly, the guidance direction is to “monitor” TCE requiring continued sampling on a recurring basis including sub-slab to address temporal influences. TCE is a chlorinated solvent that poses the greatest risk for vapor intrusion, so it is recommended to resample both the “Office” indoor air and sub-slab vapor locations.

- “Driver’s Bathroom” sample location: Additional indoor air and sub-slab vapor sampling for 1,2,4-Trimethylbenzene, Ethylbenzene, and o-Xylene is recommended based on the February 2024 1,2,4-Trimethylbenzene, Ethylbenzene, and o-Xylene concentrations detected in the “Driver’s Bathroom” indoor air sample (**Matrix D – Table 8**). Detections of these compounds were reported higher in the indoor air sample than in the sub-slab vapor sample. The 1,2,4-Trimethylbenzene, Ethylbenzene, and o-Xylene concentrations detected in the “Driver’s Bathroom” sub-slab vapor sample were reported at thresholds such that Matrix D guidance would direct the action to “identify sources or resample or mitigate.” Here, the product inventory investigation (**Attachment E**) does not identify any likely interior sources of these compounds, nor does contemporaneous outdoor air sampling (**Table 3**) indicate an alternative ambient source, accordingly, resampling including sub-slab vapor and indoor air is an appropriate action. Indoor air and sub-slab vapor for the “Driver’s Bathroom” sample location should be sampled and the resulting data reviewed/compared in concert.
- “Driver’s Bathroom” sample location: Additional indoor air and sub-slab vapor sampling for m-Xylene and p-Xylene (m&p-Xylenes) is recommended based on the February 2024 m&p-Xylene concentrations detected in the “Driver’s Bathroom” indoor air sample (**Matrix E – Table 9**). Detections of these compounds were reported higher in the indoor air sample than in the sub-slab vapor sample. The m&p-Xylene concentration detected in the “Driver’s Bathroom” sub-slab vapor sample was reported at thresholds such that Matrix E guidance would direct the action to “identify sources or resample or mitigate.” Here, the product inventory investigation (**Attachment E**) does not identify any likely interior sources of these compounds, nor does contemporaneous outdoor air sampling (**Table 3**) indicate an alternative ambient source, accordingly, resampling including sub-slab vapor and indoor air is an appropriate action. Indoor air and sub-slab vapor for the “Driver’s Bathroom” sample location should be sampled and the resulting data reviewed/compared in concert.

Figure 2 shows the February 2024 NYSDOH Soil Vapor/Indoor Air Matrix results for the sample locations recommended for further investigation.

In accordance with the United States Environmental Protection Agency (USEPA), the September 2023 and February 2024 sub-slab/subgrade vapor analytical data was compared to the USEPA's Sub-Slab and Near-Source Soil Gas Vapor Intrusion Screening Levels (VISL). The September 2023 and February 2024 indoor air exceedances are noted in **Table 1** and **Table 2**, respectively. It should be noted that the data was not compared to the NYSDOH's ambient screening levels as these were sub-slab/subgrade samples and not associated with ambient air samples.

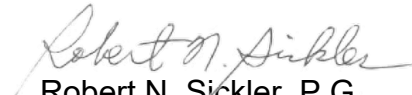
By comparison, the February 2024 results show significant increases in discrete compounds comprising indoor air contamination versus September 2023 sampling results. As recognized in the NYSDOH guidance, vapor intrusion is expected to have its greatest effect on indoor air quality during the heating season. In this regard, the earlier September 2023 results cannot be used to rule out exposures due to soil vapor intrusion. Moreover, contemporaneous outdoor air sampling and product inventory investigation did not identify any alternative source to soil vapor. Accordingly, the NYSDOH guidance deems appropriate additional sampling, including sub-slab monitoring to determine the source of the exposures (NYSDOH Soil Vapor Intrusion Guidance, October 2006 at 3.3.3).

Potential causes of elevated indoor air results may be attributable to many factors, and isolating or prioritizing a single factor requires a comprehensive third-party study. Buckeye has a concern about the indoor air quality in the building, and believes that mitigation measures are necessary to protect employees. The NYSDEC issued a Certificate of Completion to Elk Street Commerce Park, LLC (ESCP) dated December 30, 2019. Buckeye respectfully requests the Department ask whomever it deems is the responsible party to conduct the recommended additional indoor air and sub-slab vapor sampling, along with any mitigation measures necessary.



Please let us know if you have any questions regarding the contents of the revised February 2024 summary report.

Sincerely,
Groundwater & Environmental Services, Inc.

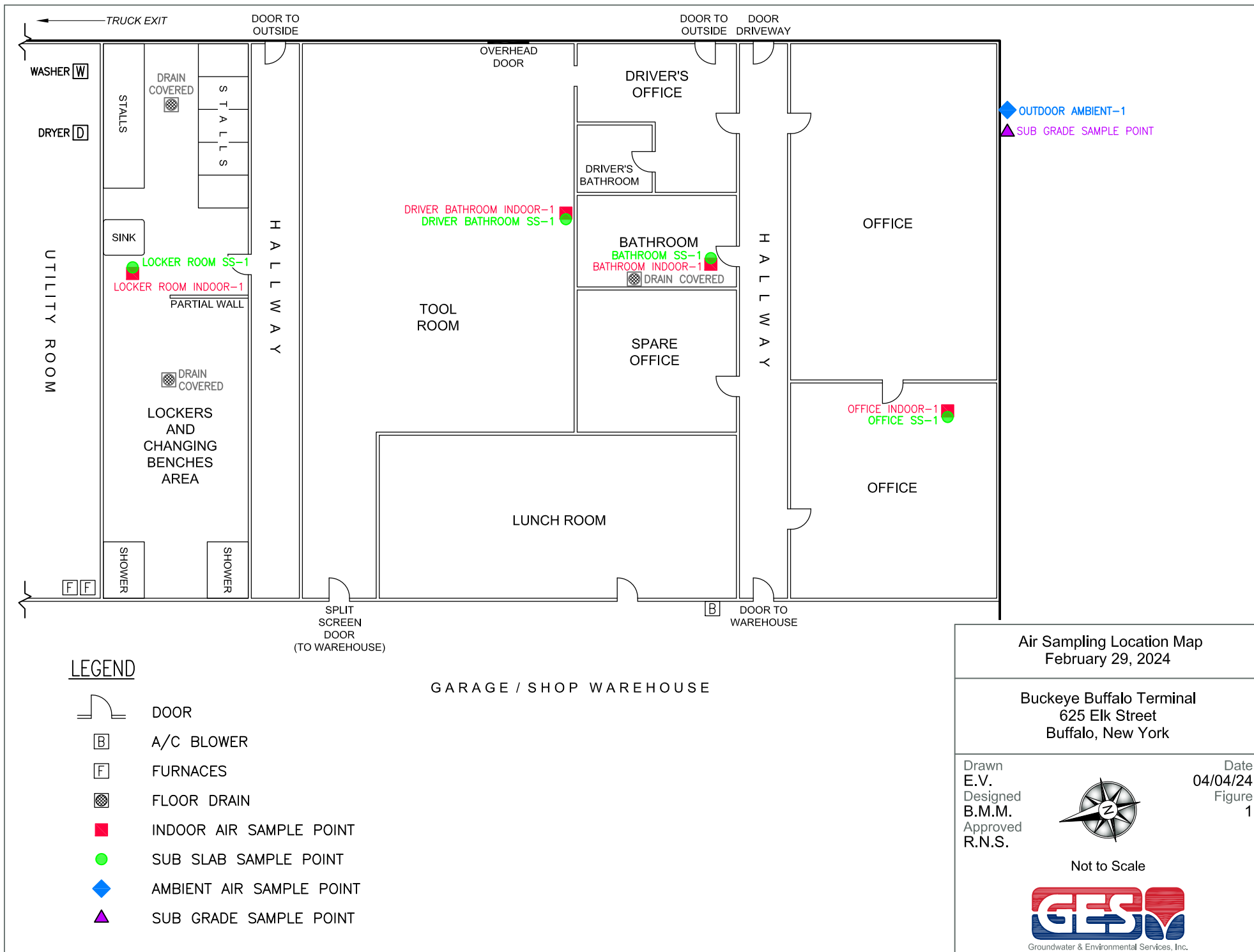

Robert N. Sickler, P.G.
Senior Project Manager

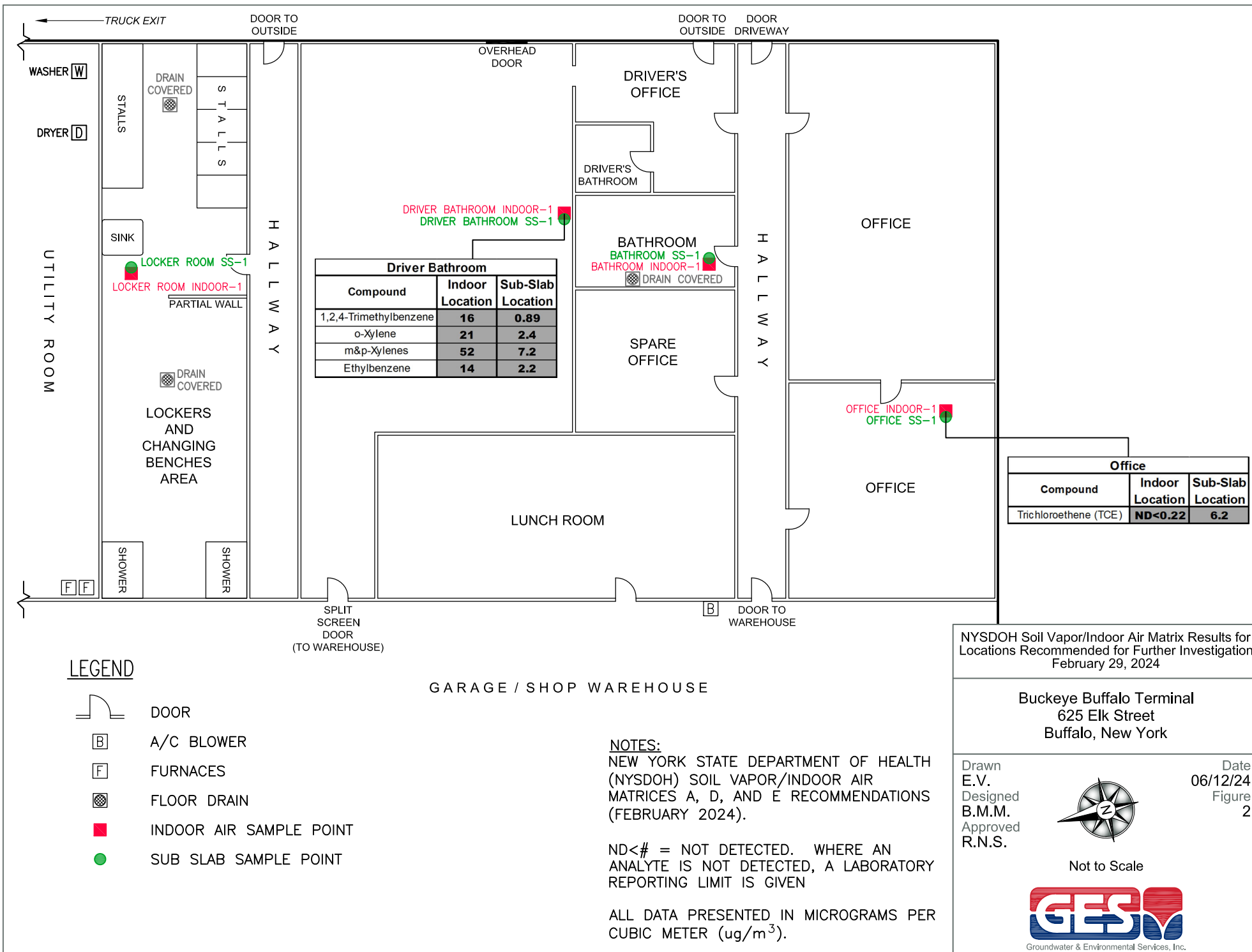
Attachment A – Figures
Attachment B – Tables
Attachment C – Laboratory Analytical Report
Attachment D – Data Usability Summary Report
Attachment E – Product Inventory Photographic Log

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Attachment A – Figures







Attachment B – Tables



Table 1
Indoor Air Analytical Summary
Method TO-15
September 14, 2023 and February 29, 2024

Sample ID		U.S. EPA Target Indoor Air Concentration ⁽¹⁾ (µg/m ³)	Office Ambient -1	Office Indoor -1	Bathroom Ambient -1	Bathroom Indoor -1	Driver Bathroom Ambient -1	Driver Bathroom Indoor -1	Locker Room Indoor -1	
Sample Location			Office Area	Office Area	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	
Air Sample Type			Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	
Sample Collection Date			9/14/2023	2/29/2024	9/14/2023	2/29/2024	9/14/2023	2/29/2024	2/29/2024	
CAS #	COMPOUND	All concentrations are reported in µg/m ³								
67-64-1	Acetone	NTCR	20	180 E	24	170 E	18	110 E	350 E	
71-43-2	Benzene	1.57	0.95	2.5	1.0	2.4	0.61	4.9	3.4	
100-44-7	Benzyl Chloride	0.25	ND<0.18	ND<0.21	ND<0.18	ND<0.21	ND<0.18	ND<0.18	ND<0.18	
75-27-4	Bromodichloromethane	0.331	0.24	ND<0.27	0.96	0.90	ND<0.23	ND<0.23	ND<0.23	
75-25-2	Bromoform	11.1	ND<0.36	ND<0.42	ND<0.36	0.19 J	ND<0.36	ND<0.36	ND<0.36	
74-83-9	Bromomethane	2.19	ND<0.14	ND<0.16	ND<0.14	ND<0.16	ND<0.14	ND<0.14	ND<0.14	
106-99-0	1,3-Butadiene	0.409	ND<0.077	ND<0.090	ND<0.077	ND<0.088	ND<0.077	ND<0.077	ND<0.077	
78-93-3	2-Butanone (MEK)	2.190	1.8 J	ND<4.8	2.8 J	ND<4.7	4.4	ND<4.1	ND<4.1	
75-15-0	Carbon Disulfide	307	0.26 J	ND<1.3	0.24 J	ND<1.2	ND<1.1	ND<1.1	ND<1.1	
96-23-5	Carbon Tetrachloride	2.04	0.48	ND<0.25	0.49	0.69	0.48	0.22	ND<0.22	
108-90-7	Chlorobenzene	21.9	ND<0.16	ND<0.19	ND<0.16	ND<0.18	ND<0.16	ND<0.16	ND<0.16	
75-00-3	Chloroethane	1.750	ND<0.092	ND<0.11	ND<0.092	ND<0.097	ND<0.092	0.14	ND<0.092	
67-66-3	Chloroform	0.533	0.38	0.26	1.7	1.1	0.095 J	ND<0.17	0.11 J	
74-87-3	Chloromethane	39.4	0.97	1.3	0.91	1.3	0.91	1.0	1.2	
110-82-7	Cyclohexane	2.630	0.80	1.9	0.82	1.4	0.31	2.7	2.1	
124-48-1	Dibromochloromethane	NTCR	ND<0.30	ND<0.34	0.26 J	ND<0.34	ND<0.30	ND<0.30	ND<0.30	
106-93-4	1,2-Dibromoethane (EDB)	0.0204	ND<0.27	ND<0.31	ND<0.27	ND<0.31	ND<0.27	ND<0.27	ND<0.27	
95-50-1	1,2-Dichlorobenzene	87.6	ND<0.21	ND<0.24	ND<0.21	0.087 J	ND<0.21	ND<0.21	ND<0.21	
941-73-1	1,3-Dichlorobenzene	NTCR	ND<0.21	ND<0.24	ND<0.21	0.16 J	ND<0.21	ND<0.21	ND<0.21	
106-46-7	1,4-Dichlorobenzene	1.11	ND<0.21	ND<0.24	ND<0.21	ND<0.24	ND<0.21	ND<0.21	ND<0.21	
75-71-8	Dichlorodifluoromethane (Freon 12)	43.8	2.2	2.3	2.1	2.5	2.3	2.6	2.6	
75-34-3	1,1-Dichloroethane	7.67	ND<0.14	ND<0.16	ND<0.14	ND<0.16	ND<0.14	ND<0.14	ND<0.14	
107-06-2	1,2-Dichloroethane	0.472	0.073 J	ND<0.16	ND<0.14	0.17	ND<0.14	ND<0.14	ND<0.14	
75-35-4	1,1-Dichloroethene	87.6	ND<0.14	ND<0.16	ND<0.14	ND<0.16	ND<0.14	ND<0.14	ND<0.14	
156-59-2	cis-1,2-Dichloroethene	17.5	ND<0.16	ND<0.16	ND<0.16	ND<0.14	ND<0.14	ND<0.14	ND<0.14	
156-60-5	trans-1,2-Dichloroethene	17.5	ND<0.14	ND<0.16	ND<0.14	0.089 J	ND<0.14	ND<0.14	ND<0.14	
78-87-5	1,2-Dichloropropane	1.75	ND<0.16	ND<0.19	ND<0.16	ND<0.18	ND<0.16	ND<0.16	ND<0.16	
10061-01-5	cis-1,3-Dichloropropene	PNL	ND<0.16	ND<0.18	ND<0.16	ND<0.18	ND<0.16	ND<0.16	ND<0.16	
10061-02-6	trans-1,3-Dichloropropene	PNL	ND<0.16	ND<0.18	ND<0.16	ND<0.18	ND<0.16	ND<0.16	ND<0.16	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	PNL	0.11 J	ND<0.28	0.12 J	0.20 J	0.12 J	0.17 J	0.12 J	
123-91-1	1,4-Dioxane	2.45	ND<1.3	ND<1.5	ND<1.3	ND<1.4	ND<1.3	ND<1.3	ND<1.3	
64-17-5	Ethanol	PNL	600	120 E	390	110 E	9.7	120 E	96 E	
841-78-6	Ethyl Acetate	30.7	0.73 J	ND<1.5	0.83 J	1.5	ND<1.3	ND<1.3	ND<1.3	
100-41-4	Ethylbenzene	4.91	1.5	5.0	1.6	3.9	0.60	14	3.9	
622-96-8	4-Ethyltoluene	PNL	0.30	6.2	0.36	4.6	0.14 J	18	4.1	
142-82-5	Heptane	175	1.7	5.2	1.1	5.0	0.55	12	6.7	
87-68-3	Hexachlorobutadiene	0.557	ND<0.37	ND<0.43	0.40	ND<0.43	ND<0.37	0.24 J	ND<0.37	
110-54-3	n-Hexane	307	2.0 J	4.2 J	2.1 J	4.2 J	ND<4.9	7.4	5.8	
991-78-6	2-Hexanone (MBK)	13.1	0.38	ND<0.17	0.79	ND<0.16	1.2	ND<0.14	ND<0.14	
87-43-0	Isopropanol	87.6	6.4	4.5	4.9	5.2	1.4 J	ND<3.4	ND<3.4	
1634-04-4	Methyl tert-butyl ether (MTBE)	47.2	0.11 J	ND<0.15	0.12 J	ND<0.14	ND<0.13	ND<0.13	0.13	
75-09-2	Methylene chloride	263	0.35 J	0.48 J	0.38 J	0.56 J	0.38 J	0.49 J	0.47 J	
108-10-1	4-Methyl-2-pentanone (MIBK)	1,310	6.3	ND<0.17	3.5	ND<0.16	0.79	ND<0.14	ND<0.14	
91-20-3	Naphthalene	0.361	0.37 L-03	0.47	0.82 L-03	0.28	ND<0.18 L-03	0.29	0.31	
115-07-1	Propene	1,310	ND<2.4	ND<2.8	ND<2.4	ND<2.8	ND<2.4	ND<2.4	4.5	
100-42-5	Styrene	438	0.54	0.24	0.51	0.24	0.30	0.15	0.36	
79-34-5	1,1,2,2-Tetrachloroethane	0.211	ND<0.24	ND<0.28	ND<0.24	ND<0.27	ND<0.24	ND<0.24	ND<0.24	
127-18-4	Tetrachloroethene	17.5	0.20 J	0.49	0.34	1.0	ND<0.24	0.31	0.25	
109-99-9	Tetrahydrofuran	876	0.37 J	ND<1.2	0.31 J	ND<1.2	ND<1.0	0.42 J	ND<1.0	
108-88-3	Toluene	2,190	5.3	17	5.4	14	2.2	42	16	
120-82-1	1,2,4-Trichlorobenzene	0.876	ND<0.26 L-03	ND<0.30	0.22 L-03, J	ND<0.30	ND<0.26 L-03	ND<0.26	ND<0.26	
71-55-6	1,1,1-Trichloroethane	2,190	ND<0.19	ND<0.22	0.10 J	0.15 J	ND<0.19	0.11 J	0.072 J	
79-00-5	1,1,2-Trichloroethane	0.0876	ND<0.19	ND<0.22	ND<0.19	ND<0.22	ND<0.19	ND<0.19	ND<0.19	
79-01-6	Trichloroethene	0.876	ND<0.19	ND<0.22	ND<0.19	ND<0.21	ND<0.19	0.15 J	ND<0.19	
75-69-4	Trichlorofluoromethane (Freon 11)	NTCR	1.3	1.2	1.4	1.2	1.2	1.4	1.4	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	2,190	0.49 J	0.40 J	0.51 J	0.64 J	0.56 J	0.53 J	0.46 J	
95-63-6	1,2,4-Trimethylbenzene	26.3	1.7	7.3	1.8	5.3	0.63	16	4.1	
108-67-8	1,3,5-Trimethylbenzene	26.3	0.44	2.1	0.46	1.6	0.17	5.2	1.3	
108-05-4	Vinyl Acetate	87.6	ND<2.5	5.3	ND<2.5	5.3	3.1	6.8	6.2	
75-01-4	Vinyl Chloride	2.79	ND<0.089	ND<0.10	ND<0.089	ND<0.10	ND<0.089	ND<0.089	ND<0.089	
136777-61-2	m-Xylene & p-Xylene	43.8	4.8	16	5.3	12	1.9	52	14	
95-47-6	o-Xylene	43.8	1.9	7.3	2.1	5.5	0.89	21	5.5	

Notes:

CAS # = Chemical Abstracts Service Number.

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

E = Reported result is estimated. Value reported over verified calibration range.

µg/m³ = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

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.

Shaded Value = Exceeds NYSDOH Ambient Air Guidance Value and/or U.S. EPA Target Ambient Indoor Air Concentration for analyte.

NSE = No Standard Established.

NTCR = No Target Concentration Reported in U.S. EPA Calculator Output.

NYSDOH = New York State Department of Health.

PEL = Permissible Exposure Limit

PNL = Parameter Not Listed in U.S. EPA Calculator Output.

U.S. EPA = United States Environmental Protection Agency.

U.S. EPA Method TO-15 = United States Environmental Protection Agency Method Toxic Organics-15.

OSHA PEL 8 Hour Time Weighted Average = US Department of Labor Occupational Safety and Health Administration Annotated OSHA Z-2 Table

OSHA PEL Acceptable Ceiling Limit = US Department of Labor Occupational Safety and Health Administration Annotated OSHA Z-2 Table

⁽¹⁾ NYSDOH Ambient Air Guidance Values = SVI Guidance as the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) with September 2013 and August 2015 updates.

⁽²⁾ U.S. EPA Target Indoor Air Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: https://epa-visl.orl.gov/cgi-bin/visl_search.

U.S. EPA Calculator Default Input Settings	
Variable	
Exposure Scenario	
Temperature for Groundwater Vapor ConcentrationC	
THQ (target hazard quotient) unitless	
TR (target risk) unitless	
AT _{avg} (averaging time - composite worker)	
EF _{avg} (exposure frequency - composite worker) day/yr	
ED _{avg} (exposure duration - composite worker) yr	
ET _{avg} (exposure time - composite worker) hr	
LT (lifetime) yr	
AF _{gw} (Attenuation Factor Groundwater) unitless	
AF _{ss} (Attenuation Factor Sub-Slab) unitless	



Table 2
Sub-Slab Analytical Summary
Method TO-15
September 14, 2023 and February 29, 2024

Sample ID		U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration ⁽¹⁾ (µg/m ³)	Office SS-1	Office SS-1	Bathroom SS-1	Bathroom SS-1	Duplicate-1	Driver Bathroom SS-1	Driver Bathroom SS-1	Locker Room SS-1	
Sample Location			Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	
Air Sample Type			Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	
Sample Collection Date			9/14/2023	2/29/2024	9/14/2023	2/29/2024	2/29/2024	9/14/2023	2/29/2024	2/29/2024	
CAS #	COMPOUND	All concentrations are reported in µg/m ³									
67-64-1	Acetone	NTCR	31	10	20	29	5.5 J	58	19	17	
71-43-2	Benzene	52.4	1.4	ND<0.32	0.25 J	ND<0.32	0.77	ND<0.32	0.85	0.13 J	
100-44-7	Benzyl Chloride	8.34	ND<0.52	ND<0.52	ND<0.52	ND<0.52	ND<0.52	ND<0.52	ND<0.52	ND<0.52	
75-27-4	Bromodichloromethane	11	2.1	ND<0.67	5.1	ND<0.67	ND<0.67	18	4.3	ND<0.67	
75-25-2	Bromofom	372	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
74-83-9	Bromomethane	73	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	ND<0.39	0.43	
106-99-0	1,3-Butadiene	13.6	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	ND<0.22	
78-93-3	2-Butanone (MEK)	73,000	13	ND<12	6.8 J	7.7 J	ND<12	21	6.1 J	ND<12	
75-15-0	Carbon Disulfide	10,200	3.2	ND<3.1	ND<3.1	ND<3.1	ND<3.1	0.98 J	ND<3.1	0.78 J	
56-23-5	Carbon Tetrachloride	68.1	0.57 J	ND<0.63	0.50 J	ND<0.63	0.50 J	0.49 J	ND<0.63	ND<0.63	
108-90-7	Chlorobenzene	730	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	
75-00-3	Chloroethane	58,400	0.48	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	
67-66-3	Chloroform	17.8	3.1	ND<0.49	14	0.34 J	12	5.9	ND<0.49	ND<0.49	
74-87-3	Chloromethane	1,310	0.17 J	0.37 J	0.20 J	0.90	ND<0.41	0.21 J	ND<0.41	1.2	
110-82-7	Cyclohexane	87,600	7.2	ND<0.69	1.4	ND<0.69	ND<0.69	0.48	ND<0.69	3.1	
124-48-1	Dibromochloromethane	NTCR	0.28 J	ND<0.95	1.4	ND<0.95	ND<0.95	7.3	ND<0.95	ND<0.85	
106-93-4	1,2-Dibromomethane (EDB)	0.681	ND<0.77	ND<0.77	ND<0.77	ND<0.77	ND<0.77	ND<0.77	ND<0.77	ND<0.77	
95-50-1	1,2-Dichlorobenzene	2,920	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	
541-73-1	1,3-Dichlorobenzene	NTCR	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	ND<0.60	
106-46-7	1,4-Dichlorobenzene	37.2	1.0	ND<0.60	0.88	ND<0.60	ND<0.60	0.69	ND<0.60	ND<0.60	
75-71-8	Dichlorodifluoromethane (Freon 12)	1,460	2.3	2.5	2.3	2.5	2.5	2.6	1.9	2.6	
75-34-3	1,1-Dichloroethane	256	0.40 J	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	
107-06-2	1,2-Dichloroethane	15.7	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	
75-35-4	1,1-Dichloroethene	2,920	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	
156-59-2	cis-1,2-Dichloroethene	584	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	
156-60-5	trans-1,2-Dichloroethene	584	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	ND<0.40	
78-87-5	1,2-Dichloropropane	58.4	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	ND<0.46	
10061-01-5	cis-1,3-Dichloropropene	PNL	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	
10061-02-6	trans-1,3-Dichloropropene	PNL	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	ND<0.45	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	PNL	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	ND<0.70	
123-91-1	1,4-Dioxane	81.8	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	
64-17-5	Ethanol	PNL	5.9 J	ND<7.5	17	ND<7.5	ND<7.5	180	26	ND<7.5	
141-78-6	Ethyl Acetate	1,020	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	ND<3.6	
100-41-4	Ethylbenzene	164	1.2	ND<0.43	0.19 J	ND<0.43	ND<0.43	12	2.2	0.23 J	
622-96-8	4-Ethyltoluene	PNL	0.50	ND<0.49	ND<0.49	ND<0.49	ND<0.49	0.75	0.95	0.72	
142-82-5	Heptane	5,840	17	ND<0.41	3.0	ND<0.41	ND<0.41	1.2	1.7	3.6	
87-68-3	Hexachlorobutadiene	18.6	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.1	
110-54-3	n-Hexane	10,200	49	ND<14	24	ND<14	ND<14	ND<14	ND<14	ND<14	
591-78-6	2-Hexanone (MBK)	438	5.3	ND<0.41	2.9	0.93	0.52	4.0	ND<0.41	ND<0.41	
67-63-0	Isopropanol	2,920	ND<9.8	ND<9.8	3.4 J	ND<9.8	ND<9.8	11	ND<9.8	ND<9.8	
1634-04-4	Methyl tert-butyl ether (MTBE)	1,570	1.1	ND<0.36	0.35 J	ND<0.36	ND<0.36	ND<0.36	ND<0.36	ND<0.36	
75-09-2	Methylene chloride	8,760	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	ND<3.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	43,800	ND<0.41	ND<0.41	ND<0.41	ND<0.41	ND<0.41	14	3.5	ND<0.41	
91-20-3	Naphthalene	12	0.71 L-03	ND<0.52	0.37 L-03, J	ND<0.52	ND<0.52	0.73 L-03	ND<0.52	ND<0.52	
115-07-1	Propene	43,800	ND<6.9	ND<6.9	ND<6.9	ND<6.9	ND<6.9	ND<6.9	ND<6.9	ND<6.9	
100-42-5	Styrene	14,600	0.33 J	ND<0.43	ND<0.43	ND<0.43	ND<0.43	1.8	ND<0.43	ND<0.43	
79-34-5	1,1,2,2-Tetrachloroethane	7.06	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	ND<0.69	
127-18-4	Tetrachloroethene	584	130	83	19	84	85	24	3.1	43	
109-99-9	Tetrahydrofuran	29,200	5.0	ND<2.9	1.9 J	ND<2.9	ND<2.9	2.5 J	ND<2.9	ND<2.9	
108-88-3	Toluene	73,000	3.7	ND<0.38	0.54	ND<0.38	ND<0.38	15	7.9	0.47	
120-82-1	1,2,4-Trichlorobenzene	29.2	ND<0.74 L-03	ND<0.74	ND<0.74 L-03	ND<0.74	ND<0.74	ND<0.74 L-03	ND<0.74	ND<0.74	
71-55-6	1,1,1-Trichloroethane	73,000	3.3	1.4	1.2	6.5	6.6	1.3	0.50 J	0.77	
79-00-5	1,1,2-Trichloroethane	2.92	0.39 J	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	ND<0.55	
79-01-6	Trichloroethene	29.2	14	6.2	0.45 J	4.3	4.4	0.37 J	0.73	0.49 J	
75-69-4	Trichlorofluoromethane (Freon 11)	NTCR	2.1 J	2.1 J	5.4	1.4 J	1.3 J	9.7	1.3 J	1.4 J	
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	73,000	0.52 J	0.40 J	0.55 J	0.72 J	0.46 J	0.51 J	0.61 J	0.41 J	
95-63-0	1,2,4,4-Trimethylbenzene	876	5.5	ND<0.49	0.76	ND<0.49	ND<0.49	3.7	0.89	1.5	
108-67-8	1,3,5-Trimethylbenzene	876	1.8	ND<0.49	ND<0.49	ND<0.49	ND<0.49	1.1	ND<0.49	0.49	
108-05-4	Vinyl Acetate	2,920	6.2 J	1.8 J	5.4 J	2.3 J	ND<7.0	5.0 J	2.4 J	3.6 J	
75-01-4	Vinyl Chloride	92.9	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	ND<0.26	
136777-61-2	m-Xylene & p-Xylene	1,460	6.9	ND<0.87	0.83 J	ND<0.87	ND<0.87	48	7.2	1.6	
95-47-6	o-Xylene	1,460	2.6	ND<0.43	0.24 J	ND<0.43	ND<0.43	15	2.4	0.42 J	

Notes:

CAS # = Chemical Abstracts Service Number.

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

µg/m³ = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

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.

Shaded Value = Exceeds the U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration for analyte.

NSE = No Standard Established.

NTCR = No Target Concentration Reported in U.S. EPA Calculator Output.

PNL = Parameter Not Listed in U.S. EPA Calculator Output.

U.S. EPA = United States Environmental Protection Agency.

U.S. EPA Method TO-15 = United States Environmental Protection Agency Method Toxic Organics-15.

⁽¹⁾ U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: https://epa-visl.cerl.gov/cgi-bin/visl_search.

U.S. EPA Calculator Default Input Settings	
Variable	Value
Exposure Scenario	Commercial
Temperature for Groundwater Vapor Concentration C	25
THQ (target hazard quotient) unitless	0.1
TR (target risk) unitless	0.00001
AT _{com} (averaging time - composite worker)	365
EF _{com} (exposure frequency - composite worker) day/yr	250
ED _{com} (exposure duration - composite worker) yr	25
ET _{com} (exposure time - composite worker) hr	8
LT (lifetime) yr	70
AF _{gw} (Attenuation Factor Groundwater) unitless	0.001
AF _{ss} (Attenuation Factor Sub-Slab) unitless	0.03

Table 3
Outdoor Ambient and Subgrade Analytical Summary
Method TO-15
February 29, 2024

Sample ID		U.S. EPA Target Indoor Air Concentration² (µg/m3)	U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration¹ (µg/m3)	Outdoor Ambient -1	Outdoor SSV-1
Sample Location				Outdoor	Outdoor Soil Vapor
Air Sample Type				Outdoor	Subgrade
Sample Collection Date				2/29/2024	2/29/2024
CAS #	COMPOUND	All concentrations are reported in µg/m³			
67-64-1	Acetone	NTCR	NTCR	3.5	ND<9.5
71-43-2	Benzene	1.57	52.4	0.41	ND<0.32
100-44-7	Benzyl Chloride	0.25	8.34	ND<0.18	ND<0.52
75-27-4	Bromodichloromethane	0.331	11	ND<0.23	ND<0.67
75-25-2	Bromoform	11.1	372	ND<0.36	ND<1.0
74-83-9	Bromomethane	2.19	73	ND<0.14	ND<0.39
106-99-0	1,3-Butadiene	0.409	13.6	ND<0.077	ND<0.22
78-93-3	2-Butanone (MEK)	2.190	73.000	ND<4.1	ND<12
75-15-0	Carbon Disulfide	307	10,200	ND<1.1	ND<3.1
56-23-5	Carbon Tetrachloride	2.04	68.1	0.51	ND<0.63
108-90-7	Chlorobenzene	21.9	730	ND<0.16	ND<0.46
75-00-3	Chloroethane	1,750	58,400	ND<0.092	ND<0.26
67-66-3	Chloroform	0.533	17.8	ND<0.17	0.30 J
74-87-3	Chloromethane	39.4	1,310	0.86	ND<0.41
110-82-7	Cyclohexane	2,630	87,600	ND<0.24	ND<0.69
124-48-1	Dibromochloromethane	NTCR	NTCR	ND<0.30	ND<0.85
106-93-4	1,2-Dibromoethane (EDB)	0.0204	0.681	ND<0.27	ND<0.77
95-50-1	1,2-Dichlorobenzene	87.6	2,920	ND<0.21	ND<0.60
541-73-1	1,3-Dichlorobenzene	NTCR	NTCR	ND<0.21	ND<0.60
106-46-7	1,4-Dichlorobenzene	1.11	37.2	ND<0.21	ND<0.60
75-71-8	Dichlorodifluoromethane (Freon 12)	43.8	1,460	2.3	2.3
75-34-3	1,1-Dichloroethane	7.67	256	ND<0.14	ND<0.40
107-06-2	1,2-Dichloroethane	0.472	15.7	ND<0.14	ND<0.40
75-35-4	1,1-Dichloroethene	87.6	2,920	ND<0.14	ND<0.40
156-59-2	cis-1,2-Dichloroethene	17.5	584	ND<0.14	ND<0.40
156-60-5	trans-1,2-Dichloroethene	17.5	584	ND<0.14	ND<0.40
78-87-5	1,2-Dichloropropane	1.75	58.4	ND<0.16	ND<0.46
10061-01-5	cis-1,3-Dichloropropene	PNL	PNL	ND<0.16	ND<0.45
10061-02-6	trans-1,3-Dichloropropene	PNL	PNL	ND<0.16	ND<0.45
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	PNL	PNL	0.11 J	ND<0.70
123-91-1	1,4-Dioxane	2.45	81.8	ND<1.3	ND<3.6
64-17-5	Ethanol	PNL	PNL	2.6 J	ND<7.5
141-78-6	Ethyl Acetate	30.7	1,020	ND<1.3	ND<3.6
100-41-4	Ethylbenzene	4.91	164	0.055 J	ND<0.43
622-96-8	4-Ethyltoluene	PNL	PNL	ND<0.17	ND<0.49
142-82-5	Heptane	175	5,840	0.25	ND<0.41
87-68-3	Hexachlorobutadiene	0.557	18.6	ND<0.37	ND<1.1
110-54-3	n-Hexane	307	10,200	ND<4.9	ND<14
591-78-6	2-Hexanone (MBK)	13.1	438	ND<0.14	ND<0.41
67-63-0	Isopropanol	87.6	2,920	ND<3.4	ND<9.8
1634-04-4	Methyl tert-butyl ether (MTBE)	47.2	1,570	ND<0.13	ND<0.36
75-09-2	Methylene chloride	263	8,760	0.37 J	ND<3.5
108-10-1	4-Methyl-2-pentanone (MIBK)	1,310	43,800	ND<0.14	ND<0.41
91-20-3	Naphthalene	0.361	12	ND<0.18	ND<0.52
115-07-1	Propene	1,310	43,800	ND<2.4	ND<6.9
100-42-5	Styrene	438	14,600	ND<0.15	ND<0.43
79-34-5	1,1,2,2-Tetrachloroethane	0.211	7.05	ND<0.24	ND<0.69
127-18-4	Tetrachloroethene	17.5	584	ND<0.24	12
109-99-9	Tetrahydrofuran	876	29,200	ND<1.0	ND<2.9
108-88-3	Toluene	2,190	73,000	0.31	0.20 J
120-82-1	1,2,4-Trichlorobenzene	0.876	29.2	ND<0.26	ND<0.74
71-55-6	1,1,1-Trichloroethane	2,190	73,000	ND<0.19	0.20 J
79-00-5	1,1,2-Trichloroethane	0.0876	2.92	ND<0.19	ND<0.55
79-01-6	Trichloroethene	0.876	29.2	ND<0.19	1.5
75-69-4	Trichlorofluoromethane (Freon 11)	NTCR	NTCR	1.2	1.7 J
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	2,190	73,000	0.56 J	0.46 J
95-63-6	1,2,4-Trimethylbenzene	26.3	876	ND<0.17	ND<0.49
108-67-8	1,3,5-Trimethylbenzene	26.3	876	ND<0.17	ND<0.49
108-05-4	Vinyl Acetate	87.6	2,920	ND<2.5	ND<7.0
75-01-4	Vinyl Chloride	2.79	92.9	ND<0.089	ND<0.26
136777-61-2	m-Xylene & p-Xylene	43.8	1,460	0.16 J	ND<0.87
95-47-6	o-Xylene	43.8	1,460	ND<0.15	ND<0.43

Notes:

CAS # = Chemical Abstracts Service Number.

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

E = Reported result is estimated. Value reported over verified calibration range.

NTCR = No Target Concentration Reported in U.S. EPA Calculator Output.

PNL = Parameter Not Listed in U.S. EPA Calculator Output.

µg/m³ = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

⁽¹⁾ U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: https://epa-visl.oeml.gov/cgi-bin/visl_search.

⁽²⁾ U.S. EPA Target Indoor Air Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: https://epa-visl.oeml.gov/cgi-bin/visl_search.

U.S. EPA Calculator Default Input Settings	
Variable	Value
Exposure Scenario	Commercial
Temperature for Groundwater Vapor Concentration C	25
THQ (target hazard quotient) unitless	0.1
TR (target risk) unitless	0.000001
AT _{com} (averaging time - composite worker)	365
EF _{com} (exposure frequency - composite worker) day/yr	250
ED _{com} (exposure duration - composite worker) yr	25
ET _{com} (exposure time - composite worker) hr	8
LT (lifetime) yr	70
AF _{gw} (Attenuation Factor Groundwater) unitless	0.001
AF _{ss} (Attenuation Factor Sub-Slab) unitless	0.03



Table 4
PID Indoor/Outdoor Air and Sub-Slab/Subgrade Screening Data
February 26 and 29, 2024

Sample ID	Location	Sample Type	Sample Location	Sub-Slab/ Subgrade Helium Test 2/26/24	Indoor/ Outdoor Air PID Reading 2/26/24 (ppb)	Sub-Slab/ Subgrade PID Reading 2/26/24 (ppb)	Indoor/ Outdoor Air PID Reading 2/29/24 (ppb)	Sub-Slab/ Subgrade PID Reading 2/29/24 (ppb)	Summa Canister #	Regulator #	Sample Date Start	Sample Time Start	Pressure Start ("Hg)	Sample Date End	Sample Time End	Pressure End ("Hg)
Office Indoor-1	Buffalo Terminal Office Building	Indoor	Main Office	NA	114	NA	133	NA	1118	FC2146	2/29/24	0735	-30	2/29/24	1555	-12
Office SS-1	Buffalo Terminal Office Building	Sub-Slab	Main Office	Pass	NA	1	NA	0	2110	FC0044	2/29/24	0735	-30	2/29/24	1555	-9
Bathroom Indoor-1	Buffalo Terminal Office Building	Indoor	Main Bathroom	NA	150	NA	105	NA	1247	3642	2/29/24	0805	-28	2/29/24	1605	-13
Bathroom SS-1	Buffalo Terminal Office Building	Sub-Slab	Main Bathroom	Pass	NA	0	NA	17.13	0531	5078	2/29/24	0755	-30	2/29/24	1330	-4
Duplicate-1	Buffalo Terminal Office Building	Sub-Slab	Main Bathroom	Pass	NA	0	NA	17.13	2713	5078	2/29/24	0755	-30	2/29/24	1330	-4
Drivers Bathroom Indoor-1	Buffalo Terminal Office Building	Indoor	Area North of Driver's Bathroom	NA	37	NA	17	NA	0127	FC2039	2/29/24	0820	-30	2/29/24	1620	-8
Drivers Bathroom SS-1	Buffalo Terminal Office Building	Sub-Slab	Area North of Driver's Bathroom	Pass	NA	0	NA	0	2075	FC2041	2/29/24	0820	-30	2/29/24	1625	-10
Locker Room Indoor-1	Buffalo Terminal Office Building	Indoor	Locker Room	NA	87	NA	13	NA	0958	FC1378	2/29/24	0830	-30	2/29/24	1630	-8
Locker Room SS-1	Buffalo Terminal Office Building	Sub-Slab	Locker Room	Pass	NA	0	NA	0	3404	FC0834	2/29/24	0830	-30	2/29/24	1630	-7
Outdoor Ambient-1	Buffalo Terminal Office Building	Outdoor Ambient	Outside Bldg.	NA	50	NA	30	NA	2063	FC2088	2/29/24	0715	-30	2/29/24	1540	-10
Outdoor SSV-1	Buffalo Terminal Office Building	Subgrade Soil Vapor	Outside Bldg.	Pass	NA	11	NA	8	3459	FC2021	2/29/24	0715	-30	2/29/24	1535	-4

Notes:

"Hg = inches of Mercury.
NA = Not Applicable or Not Available.
PID = Photoionization Detector.
ppb = parts per billion.

Table 5
Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix A
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient-1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in $\mu\text{g}/\text{m}^3$										
Trichloroethene (TCE)	ND<0.22	6.2	ND<0.21	4.3	4.4	0.15 J	0.73	ND < 0.19	0.49 J	ND<0.19	ND<0.19
cis-1,2-Dichloroethene (c12-DCE)	ND<0.16	ND<0.40	ND<0.16	ND<0.40	ND<0.40	ND<0.14	ND<0.40	ND < 0.14	ND<0.40	ND<0.14	ND<0.40
1,1-Dichloroethene (11-DCE)	ND<0.16	ND<0.40	ND<0.16	ND<0.40	ND<0.40	ND<0.14	ND<0.40	ND < 0.14	ND<0.40	ND<0.40	ND<0.40
Carbon Tetrachloride	ND<0.25	ND < 0.63	0.69	ND < 0.63	0.50 J	0.22	ND < 0.63	ND < 0.22	ND < 0.63	0.51	ND<0.63

Notes:

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix A (May 2017) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <6	yellow is 6 to <60	red is >60
Indoor Air Concentration of Compound:	blue is <0.2	orange is 0.2 to <1	red is >1

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of each of the four (4) compounds, no further action is required for the Bathroom, Driver's Bathroom and Locker Room locations. For the Office location, further sampling is recommended due to the comparison of the indoor air and sub-slab vapor concentrations of TCE.

Table 6
Indoor/Outdoor and Sub-Slab/Subgrade Vapor Analytical Data Comparison to Matrix B
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient -1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in $\mu\text{g}/\text{m}^3$										
Tetrachloroethene (PCE)	0.49	83	1.0	84	85	0.31	3.1	0.25	43	ND<0.24	12
1,1,1-Trichloroethane (111-TCA)	ND<0.22	1.4	0.15 J	6.5	6.6	0.11 J	0.50 J	0.072 J	0.77	ND<0.19	0.20 J
Methylene Chloride	0.48 J	ND<3.5	0.56 J	ND<3.5	ND<3.5	0.49 J	ND<3.5	0.47 J	ND<3.5	0.37 J	ND<0.3.5

Notes:

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix B (May 2017) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <100	yellow is 100 to <1,000	red is >1,000
Indoor Air Concentration of Compound:	blue is <3	orange is 3 to <10	red is >10

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of each of the three (3) compounds, no further action is required.



Table 7
Indoor/Outdoor and Sub-Slab/Subgrade Vapor Analytical Data Comparison to Matrix C
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient -1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in µg/m ³										
Vinyl Chloride	ND<0.10	ND<0.26	ND<0.10	ND<0.26	ND<0.26	ND<0.089	ND<0.26	ND<0.089	ND<0.26	ND<0.089	ND<0.26

Notes:
ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.
µg/m³ = micrograms per cubic meter.

New York State Department of Health Soil Vapor/Air Matrix C (May 2017) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <6	yellow is 6 to <60	red is >60
Indoor Air Concentration of Compound:	blue is <0.2	orange is <0.2	

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.

Table 8
Indoor/Outdoor and Sub-Slab/Subgrade Vapor Analytical Data Comparison to Matrix D
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient-1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in $\mu\text{g}/\text{m}^3$										
Benzene	2.5	ND<0.32	2.4	ND<0.32	ND<0.32	4.9	0.85	3.4	0.13 J	0.41	ND<0.32
Ethylbenzene	5.0	ND<0.43	3.9	ND<0.43	ND<0.43	14	2.2	3.9	0.23 J	0.055 J	ND<0.43
Naphthalene	0.47	ND<0.52	0.28	ND<0.52	ND<0.52	0.29	ND<0.52	0.31	ND<0.52	ND<0.18	ND<0.52
Cyclohexane	1.9	ND<0.69	1.4	ND<0.69	ND<0.69	2.7	ND<0.69	2.1	3.1	ND<0.24	ND<0.69
2,2,4-Trimethylpentane (Isooctane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	7.3	ND<0.49	5.3	ND<0.49	ND<0.49	16	0.89	4.1	1.5	ND<0.17	ND<0.49
1,3,5-Trimethylbenzene	2.1	ND<0.49	1.6	ND<0.49	ND<0.49	5.2	ND<0.49	1.3	0.49	ND<0.17	ND<0.49
o-Xylene	7.3	ND<0.43	5.5	ND<0.43	ND<0.43	21	2.4	5.5	0.42 J	ND<0.15	ND<0.43

Notes:

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

NA = Not Analyzed.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix D (February 2024) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <60	yellow is 60 to <600	red is >600
Indoor Air Concentration of Compound:	blue is <2	orange is 2 to <10	red is >10

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, further action is recommended in the Driver's Bathroom in order to identify and mitigate the source of the high concentrations of 1,2,4-Trimethylbenzene, Ethylbenzene, and o-Xylene for the indoor air sample. Resampling of the Driver's Bathroom sample location is recommended.



Table 9
Indoor/Outdoor and Sub-Slab/Subgrade Vapor Analytical Data Comparison to Matrix E
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient-1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in µg/m ³										
m-Xylene	16	ND<0.87	12	ND<0.87	ND<0.87	52	7.2	14	1.6	0.16 J	ND<0.87
p-Xylene											
Heptane	5.2	ND<0.41	5.0	ND<0.41	ND<0.41	12	1.7	6.7	3.6	0.25	ND<0.41
Hexane (n-Hexane)	4.2 J	ND<14	4.2 J	ND<14	ND<14	7.4	ND<14	5.8	ND<14	ND<4.9	ND<14

Notes:
ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.
µg/m³ = micrograms per cubic meter.
J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.
New York State Department of Health Soil Vapor/Air Matrix E (February 2024) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <200	yellow is 200 to <2,000	red is >2,000
Indoor Air Concentration of Compound:	blue is <6	orange is 6 to <20	red is >20

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, further action is recommended in the Driver's Bathroom in order to identify and mitigate the source of the high concentrations of m&p-Xylenes for the indoor air sample. Resampling of the Driver's Bathroom sample location is recommended.



Table 10
Indoor/Outdoor and Sub-Slab/Subgrade Vapor Analytical Data Comparison to Matrix F
February 29, 2024

Sample ID	Office Indoor-1	Office SS-1	Bathroom Indoor-1	Bathroom SS-1	Duplicate-1	Driver Bathroom Indoor-1	Driver Bathroom SS-1	Locker Room Indoor-1	Locker Room SS-1	Outdoor Ambient -1	Outdoor SSV-1
Sample Location	Office Area	Office Area	Bathroom	Bathroom	Bathroom	Area North of Driver's Bathroom	Area North of Driver's Bathroom	Locker Room	Locker Room	Outdoor	Outdoor
Air Sample Type	Indoor	Sub-Slab	Indoor	Sub-Slab	Sub-Slab	Indoor	Sub-Slab	Indoor	Sub-Slab	Ambient	Subgrade
Sample Collection Date	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024	2/29/2024
Compound	All concentrations are reported in µg/m ³										
Toluene	17	ND<0.38	14	ND<0.38	ND<0.38	42	7.9	16	0.47	0.31	0.20 J

Notes:
ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.
µg/m³ = micrograms per cubic meter.
J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix F (February 2024) recommendations are based on the following:

Sub-Slab Vapor Concentration of Compound:	green is <300	yellow is 300 to <3,000	red is >3,000
Indoor Air Concentration of Compound:	blue is <10	orange is 10 to <50	red is >50

Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.



Attachment C – Laboratory Analytical Report

March 15, 2024

Robert Sickler
Buckeye Partners LLC_GES (Syracuse)
6780 Northern Blvd, Suite 100
East Syracuse, NY 13057

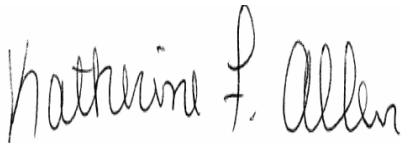
Project Location:
Client Job Number:
Project Number: 0901876
Laboratory Work Order Number: 24C0193

Enclosed are results of analyses for samples as received by the laboratory on March 1, 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

Buckeye Partners LLC_GES (Syracuse)
6780 Northern Blvd, Suite 100
East Syracuse, NY 13057
ATTN: Robert Sickler

REPORT DATE: 3/15/2024

PURCHASE ORDER NUMBER: 0901876-0400-0406-1109

PROJECT NUMBER: 0901876

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24C0193

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

PROJECT LOCATION:

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Outdoor SSV-1	24C0193-01	Air		- EPA TO-15	
Outdoor Ambient-1	24C0193-02	Air		- EPA TO-15	
Office SS-1	24C0193-03	Air		- EPA TO-15	
Office Indoor-1	24C0193-04	Air		- EPA TO-15	
Bathroom SS-1	24C0193-05	Air		- EPA TO-15	
Bathroom Indoor-1	24C0193-06	Air		- EPA TO-15	
Duplicate-1	24C0193-07	Air		- EPA TO-15	
Drivers Bathroom SS-1	24C0193-08	Air		- EPA TO-15	
Drivers Bathroom Indoor-1	24C0193-09	Air		- EPA TO-15	
Locker Room SS-1	24C0193-10	Air		- EPA TO-15	
Locker Room Indoor-1	24C0193-11	Air		- 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:**

E Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Acetone, Ethanol**

24C0193-04[Office Indoor-1], 24C0193-06[Bathroom Indoor-1], 24C0193-09[Drivers Bathroom Indoor-1], 24C0193-11[Locker Room Indoor-1]

R-04 Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:**Trichloroethylene, Trichlorofluoromethane (Freon 11)**

B368423-DUP1

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:
 Date Received: 3/1/2024
Field Sample #: Outdoor SSV-1
Sample ID: 24C0193-01
 Sample Matrix: Air
 Sampled: 2/29/2024 15:35

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3459
 Canister Size: 6 liter
 Flow Controller ID: FC2021
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -1.3
 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		
Acetone	ND	4.0	2.0		ND	9.5	4.8	2	3/13/24 18:07		CMR
Benzene	ND	0.10	0.031		ND	0.32	0.099	2	3/13/24 18:07		CMR
Benzyl chloride	ND	0.10	0.054		ND	0.52	0.28	2	3/13/24 18:07		CMR
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	3/13/24 18:07		CMR
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	3/13/24 18:07		CMR
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	3/13/24 18:07		CMR
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	3/13/24 18:07		CMR
2-Butanone (MEK)	ND	4.0	2.0		ND	12	5.8	2	3/13/24 18:07		CMR
Carbon Disulfide	ND	1.0	0.19		ND	3.1	0.60	2	3/13/24 18:07		CMR
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	3/13/24 18:07		CMR
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	3/13/24 18:07		CMR
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	3/13/24 18:07		CMR
Chloroform	0.062	0.10	0.049	J	0.30	0.49	0.24	2	3/13/24 18:07		CMR
Chloromethane	ND	0.20	0.13		ND	0.41	0.28	2	3/13/24 18:07		CMR
Cyclohexane	ND	0.20	0.078		ND	0.69	0.27	2	3/13/24 18:07		CMR
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	3/13/24 18:07		CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	3/13/24 18:07		CMR
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	3/13/24 18:07		CMR
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	3/13/24 18:07		CMR
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	3/13/24 18:07		CMR
Dichlorodifluoromethane (Freon 12)	0.47	0.10	0.042		2.3	0.49	0.21	2	3/13/24 18:07		CMR
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	3/13/24 18:07		CMR
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	3/13/24 18:07		CMR
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	3/13/24 18:07		CMR
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	3/13/24 18:07		CMR
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	3/13/24 18:07		CMR
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	3/13/24 18:07		CMR
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	3/13/24 18:07		CMR
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	3/13/24 18:07		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	3/13/24 18:07		CMR
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	3/13/24 18:07		CMR
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	3/13/24 18:07		CMR
Ethyl Acetate	ND	1.0	0.39		ND	3.6	1.4	2	3/13/24 18:07		CMR
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	3/13/24 18:07		CMR
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	3/13/24 18:07		CMR
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	3/13/24 18:07		CMR
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	3/13/24 18:07		CMR
Hexane	ND	4.0	2.1		ND	14	7.4	2	3/13/24 18:07		CMR
2-Hexanone (MBK)	ND	0.10	0.043		ND	0.41	0.18	2	3/13/24 18:07		CMR
Isopropanol	ND	4.0	2.1		ND	9.8	5.2	2	3/13/24 18:07		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	3/13/24 18:07		CMR
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	3/13/24 18:07		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	3/13/24 18:07		CMR
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	3/13/24 18:07		CMR
Propene	ND	4.0	2.2		ND	6.9	3.8	2	3/13/24 18:07		CMR
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	3/13/24 18:07		CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	3/13/24 18:07		CMR

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Outdoor SSV-1
Sample ID: 24C0193-01
 Sample Matrix: Air
 Sampled: 2/29/2024 15:35

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3459
 Canister Size: 6 liter
 Flow Controller ID: FC2021
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -1.3
 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		
Tetrachloroethylene	1.8	0.10	0.086		12	0.68	0.58	2	3/13/24 18:07		CMR
Tetrahydrofuran	ND	1.0	0.38		ND	2.9	1.1	2	3/13/24 18:07		CMR
Toluene	0.054	0.10	0.050	J	0.20	0.38	0.19	2	3/13/24 18:07		CMR
1,2,4-Trichlorobenzene	ND	0.10	0.055		ND	0.74	0.41	2	3/13/24 18:07		CMR
1,1,1-Trichloroethane	0.036	0.10	0.031	J	0.20	0.55	0.17	2	3/13/24 18:07		CMR
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	3/13/24 18:07		CMR
Trichloroethylene	0.28	0.10	0.077		1.5	0.54	0.41	2	3/13/24 18:07		CMR
Trichlorofluoromethane (Freon 11)	0.30	0.40	0.041	J	1.7	2.2	0.23	2	3/13/24 18:07		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.40	0.027	J	0.46	3.1	0.21	2	3/13/24 18:07		CMR
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	3/13/24 18:07		CMR
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	3/13/24 18:07		CMR
Vinyl Acetate	ND	2.0	0.41		ND	7.0	1.4	2	3/13/24 18:07		CMR
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	3/13/24 18:07		CMR
m&p-Xylene	ND	0.20	0.070		ND	0.87	0.30	2	3/13/24 18:07		CMR
o-Xylene	ND	0.10	0.037		ND	0.43	0.16	2	3/13/24 18:07		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.3	70-130	3/13/24 18:07

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Outdoor Ambient-1
Sample ID: 24C0193-02
 Sample Matrix: Air
 Sampled: 2/29/2024 15:40

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2063
 Canister Size: 6 liter
 Flow Controller ID: FC2088
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.8
 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
Acetone	1.5	1.4	0.71		3.5	3.3	1.7	0.698	3/13/24 15:17	CMR
Benzene	0.13	0.035	0.011		0.41	0.11	0.034	0.698	3/13/24 15:17	CMR
Benzyl chloride	ND	0.035	0.019		ND	0.18	0.097	0.698	3/13/24 15:17	CMR
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24 15:17	CMR
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24 15:17	CMR
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24 15:17	CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/13/24 15:17	CMR
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24 15:17	CMR
Carbon Disulfide	ND	0.35	0.067		ND	1.1	0.21	0.698	3/13/24 15:17	CMR
Carbon Tetrachloride	0.082	0.035	0.027		0.51	0.22	0.17	0.698	3/13/24 15:17	CMR
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24 15:17	CMR
Chloroethane	ND	0.035	0.032		ND	0.092	0.084	0.698	3/13/24 15:17	CMR
Chloroform	ND	0.035	0.017		ND	0.17	0.083	0.698	3/13/24 15:17	CMR
Chloromethane	0.42	0.070	0.047		0.86	0.14	0.096	0.698	3/13/24 15:17	CMR
Cyclohexane	ND	0.070	0.027		ND	0.24	0.093	0.698	3/13/24 15:17	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24 15:17	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24 15:17	CMR
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24 15:17	CMR
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24 15:17	CMR
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24 15:17	CMR
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.015		2.3	0.17	0.072	0.698	3/13/24 15:17	CMR
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24 15:17	CMR
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	3/13/24 15:17	CMR
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24 15:17	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.017		ND	0.14	0.067	0.698	3/13/24 15:17	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24 15:17	CMR
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24 15:17	CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24 15:17	CMR
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24 15:17	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.015	0.035	0.014	J	0.11	0.24	0.098	0.698	3/13/24 15:17	CMR
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24 15:17	CMR
Ethanol	1.4	1.4	0.93	J	2.6	2.6	1.7	0.698	3/13/24 15:17	CMR
Ethyl Acetate	ND	0.35	0.14		ND	1.3	0.49	0.698	3/13/24 15:17	CMR
Ethylbenzene	0.013	0.035	0.012	J	0.055	0.15	0.052	0.698	3/13/24 15:17	CMR
4-Ethyltoluene	ND	0.035	0.015		ND	0.17	0.075	0.698	3/13/24 15:17	CMR
Heptane	0.061	0.035	0.022		0.25	0.14	0.090	0.698	3/13/24 15:17	CMR
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24 15:17	CMR
Hexane	ND	1.4	0.73		ND	4.9	2.6	0.698	3/13/24 15:17	CMR
2-Hexanone (MBK)	ND	0.035	0.015		ND	0.14	0.062	0.698	3/13/24 15:17	CMR
Isopropanol	ND	1.4	0.73		ND	3.4	1.8	0.698	3/13/24 15:17	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24 15:17	CMR
Methylene Chloride	0.11	0.35	0.094	J	0.37	1.2	0.33	0.698	3/13/24 15:17	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24 15:17	CMR
Naphthalene	ND	0.035	0.028		ND	0.18	0.15	0.698	3/13/24 15:17	CMR
Propene	ND	1.4	0.77		ND	2.4	1.3	0.698	3/13/24 15:17	CMR
Styrene	ND	0.035	0.027		ND	0.15	0.12	0.698	3/13/24 15:17	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24 15:17	CMR

ANALYTICAL RESULTS

Project Location:

Date Received: 3/1/2024

Field Sample #: Outdoor Ambient-1
Sample ID: 24C0193-02

Sample Matrix: Air

Sampled: 2/29/2024 15:40

Sample Description/Location:

Sub Description/Location:

Canister ID: 2063

Canister Size: 6 liter

Flow Controller ID: FC2088

Sample Type: 8 hr

Work Order: 24C0193

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -10

Receipt Vacuum(in Hg): -8.8

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		
Tetrachloroethylene	ND	0.035	0.030		ND	0.24	0.20	0.698	3/13/24 15:17		CMR
Tetrahydrofuran	ND	0.35	0.13		ND	1.0	0.39	0.698	3/13/24 15:17		CMR
Toluene	0.082	0.035	0.017		0.31	0.13	0.066	0.698	3/13/24 15:17		CMR
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24 15:17		CMR
1,1,1-Trichloroethane	ND	0.035	0.011		ND	0.19	0.059	0.698	3/13/24 15:17		CMR
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24 15:17		CMR
Trichloroethylene	ND	0.035	0.027		ND	0.19	0.14	0.698	3/13/24 15:17		CMR
Trichlorofluoromethane (Freon 11)	0.22	0.14	0.014		1.2	0.78	0.080	0.698	3/13/24 15:17		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.073	0.14	0.0095	J	0.56	1.1	0.073	0.698	3/13/24 15:17		CMR
1,2,4-Trimethylbenzene	ND	0.035	0.021		ND	0.17	0.10	0.698	3/13/24 15:17		CMR
1,3,5-Trimethylbenzene	ND	0.035	0.027		ND	0.17	0.13	0.698	3/13/24 15:17		CMR
Vinyl Acetate	ND	0.70	0.14		ND	2.5	0.50	0.698	3/13/24 15:17		CMR
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24 15:17		CMR
m&p-Xylene	0.037	0.070	0.024	J	0.16	0.30	0.11	0.698	3/13/24 15:17		CMR
o-Xylene	ND	0.035	0.013		ND	0.15	0.055	0.698	3/13/24 15:17		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.9	70-130	3/13/24 15:17

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Office SS-1
Sample ID: 24C0193-03
 Sample Matrix: Air
 Sampled: 2/29/2024 15:55

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P2110
 Canister Size: 6 liter
 Flow Controller ID: FC0044
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -9
 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
Acetone	4.3	4.0	2.0		10	9.5	4.8	2	3/13/24 19:06	CMR
Benzene	ND	0.10	0.031		ND	0.32	0.099	2	3/13/24 19:06	CMR
Benzyl chloride	ND	0.10	0.054		ND	0.52	0.28	2	3/13/24 19:06	CMR
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	3/13/24 19:06	CMR
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	3/13/24 19:06	CMR
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	3/13/24 19:06	CMR
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	3/13/24 19:06	CMR
2-Butanone (MEK)	ND	4.0	2.0		ND	12	5.8	2	3/13/24 19:06	CMR
Carbon Disulfide	ND	1.0	0.19		ND	3.1	0.60	2	3/13/24 19:06	CMR
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	3/13/24 19:06	CMR
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	3/13/24 19:06	CMR
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	3/13/24 19:06	CMR
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	3/13/24 19:06	CMR
Chloromethane	0.18	0.20	0.13	J	0.37	0.41	0.28	2	3/13/24 19:06	CMR
Cyclohexane	ND	0.20	0.078		ND	0.69	0.27	2	3/13/24 19:06	CMR
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	3/13/24 19:06	CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	3/13/24 19:06	CMR
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	3/13/24 19:06	CMR
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	3/13/24 19:06	CMR
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	3/13/24 19:06	CMR
Dichlorodifluoromethane (Freon 12)	0.51	0.10	0.042		2.5	0.49	0.21	2	3/13/24 19:06	CMR
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	3/13/24 19:06	CMR
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	3/13/24 19:06	CMR
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	3/13/24 19:06	CMR
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	3/13/24 19:06	CMR
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	3/13/24 19:06	CMR
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	3/13/24 19:06	CMR
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	3/13/24 19:06	CMR
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	3/13/24 19:06	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	3/13/24 19:06	CMR
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	3/13/24 19:06	CMR
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	3/13/24 19:06	CMR
Ethyl Acetate	ND	1.0	0.39		ND	3.6	1.4	2	3/13/24 19:06	CMR
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	3/13/24 19:06	CMR
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	3/13/24 19:06	CMR
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	3/13/24 19:06	CMR
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	3/13/24 19:06	CMR
Hexane	ND	4.0	2.1		ND	14	7.4	2	3/13/24 19:06	CMR
2-Hexanone (MBK)	ND	0.10	0.043		ND	0.41	0.18	2	3/13/24 19:06	CMR
Isopropanol	ND	4.0	2.1		ND	9.8	5.2	2	3/13/24 19:06	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	3/13/24 19:06	CMR
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	3/13/24 19:06	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	3/13/24 19:06	CMR
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	3/13/24 19:06	CMR
Propene	ND	4.0	2.2		ND	6.9	3.8	2	3/13/24 19:06	CMR
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	3/13/24 19:06	CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	3/13/24 19:06	CMR

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Office SS-1
Sample ID: 24C0193-03
Sample Matrix: Air
Sampled: 2/29/2024 15:55

Sample Description/Location:
Sub Description/Location:
Canister ID: P2110
Canister Size: 6 liter
Flow Controller ID: FC0044
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -9
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		
Tetrachloroethylene	12	0.10	0.086		83	0.68	0.58	2	3/13/24 19:06		CMR
Tetrahydrofuran	ND	1.0	0.38		ND	2.9	1.1	2	3/13/24 19:06		CMR
Toluene	ND	0.10	0.050		ND	0.38	0.19	2	3/13/24 19:06		CMR
1,2,4-Trichlorobenzene	ND	0.10	0.055		ND	0.74	0.41	2	3/13/24 19:06		CMR
1,1,1-Trichloroethane	0.26	0.10	0.031		1.4	0.55	0.17	2	3/13/24 19:06		CMR
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	3/13/24 19:06		CMR
Trichloroethylene	1.2	0.10	0.077		6.2	0.54	0.41	2	3/13/24 19:06		CMR
Trichlorofluoromethane (Freon 11)	0.37	0.40	0.041	J	2.1	2.2	0.23	2	3/13/24 19:06		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.052	0.40	0.027	J	0.40	3.1	0.21	2	3/13/24 19:06		CMR
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	3/13/24 19:06		CMR
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	3/13/24 19:06		CMR
Vinyl Acetate	0.52	2.0	0.41	J	1.8	7.0	1.4	2	3/13/24 19:06		CMR
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	3/13/24 19:06		CMR
m&p-Xylene	ND	0.20	0.070		ND	0.87	0.30	2	3/13/24 19:06		CMR
o-Xylene	ND	0.10	0.037		ND	0.43	0.16	2	3/13/24 19:06		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.9	70-130	3/13/24 19:06

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Office Indoor-1
Sample ID: 24C0193-04
 Sample Matrix: Air
 Sampled: 2/29/2024 15:55

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P1188
 Canister Size: 6 liter
 Flow Controller ID: FC2146
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -12
 Receipt Vacuum(in Hg): -11.9
 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		
Acetone	78	1.6	0.82	E	180	3.8	2.0	0.809	3/13/24 15:52		CMR
Benzene	0.78	0.040	0.013		2.5	0.13	0.040	0.809	3/13/24 15:52		CMR
Benzyl chloride	ND	0.040	0.022		ND	0.21	0.11	0.809	3/13/24 15:52		CMR
Bromodichloromethane	ND	0.040	0.017		ND	0.27	0.11	0.809	3/13/24 15:52		CMR
Bromoform	ND	0.040	0.014		ND	0.42	0.15	0.809	3/13/24 15:52		CMR
Bromomethane	ND	0.040	0.034		ND	0.16	0.13	0.809	3/13/24 15:52		CMR
1,3-Butadiene	ND	0.040	0.034		ND	0.090	0.075	0.809	3/13/24 15:52		CMR
2-Butanone (MEK)	ND	1.6	0.79		ND	4.8	2.3	0.809	3/13/24 15:52		CMR
Carbon Disulfide	ND	0.40	0.077		ND	1.3	0.24	0.809	3/13/24 15:52		CMR
Carbon Tetrachloride	ND	0.040	0.032		ND	0.25	0.20	0.809	3/13/24 15:52		CMR
Chlorobenzene	ND	0.040	0.013		ND	0.19	0.062	0.809	3/13/24 15:52		CMR
Chloroethane	ND	0.040	0.037		ND	0.11	0.098	0.809	3/13/24 15:52		CMR
Chloroform	0.053	0.040	0.020		0.26	0.20	0.096	0.809	3/13/24 15:52		CMR
Chloromethane	0.61	0.081	0.054		1.3	0.17	0.11	0.809	3/13/24 15:52		CMR
Cyclohexane	0.54	0.081	0.031		1.9	0.28	0.11	0.809	3/13/24 15:52		CMR
Dibromochloromethane	ND	0.040	0.027		ND	0.34	0.23	0.809	3/13/24 15:52		CMR
1,2-Dibromoethane (EDB)	ND	0.040	0.025		ND	0.31	0.19	0.809	3/13/24 15:52		CMR
1,2-Dichlorobenzene	ND	0.040	0.014		ND	0.24	0.085	0.809	3/13/24 15:52		CMR
1,3-Dichlorobenzene	ND	0.040	0.015		ND	0.24	0.090	0.809	3/13/24 15:52		CMR
1,4-Dichlorobenzene	ND	0.040	0.020		ND	0.24	0.12	0.809	3/13/24 15:52		CMR
Dichlorodifluoromethane (Freon 12)	0.46	0.040	0.017		2.3	0.20	0.084	0.809	3/13/24 15:52		CMR
1,1-Dichloroethane	ND	0.040	0.020		ND	0.16	0.080	0.809	3/13/24 15:52		CMR
1,2-Dichloroethane	ND	0.040	0.015		ND	0.16	0.062	0.809	3/13/24 15:52		CMR
1,1-Dichloroethylene	ND	0.040	0.028		ND	0.16	0.11	0.809	3/13/24 15:52		CMR
cis-1,2-Dichloroethylene	ND	0.040	0.020		ND	0.16	0.078	0.809	3/13/24 15:52		CMR
trans-1,2-Dichloroethylene	ND	0.040	0.019		ND	0.16	0.076	0.809	3/13/24 15:52		CMR
1,2-Dichloropropane	ND	0.040	0.030		ND	0.19	0.14	0.809	3/13/24 15:52		CMR
cis-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.093	0.809	3/13/24 15:52		CMR
trans-1,3-Dichloropropene	ND	0.040	0.039		ND	0.18	0.18	0.809	3/13/24 15:52		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.040	0.016		ND	0.28	0.11	0.809	3/13/24 15:52		CMR
1,4-Dioxane	ND	0.40	0.20		ND	1.5	0.72	0.809	3/13/24 15:52		CMR
Ethanol	66	1.6	1.1	E	120	3.0	2.0	0.809	3/13/24 15:52		CMR
Ethyl Acetate	ND	0.40	0.16		ND	1.5	0.57	0.809	3/13/24 15:52		CMR
Ethylbenzene	1.1	0.040	0.014		5.0	0.18	0.060	0.809	3/13/24 15:52		CMR
4-Ethyltoluene	1.3	0.040	0.018		6.2	0.20	0.086	0.809	3/13/24 15:52		CMR
Heptane	1.3	0.040	0.026		5.2	0.17	0.10	0.809	3/13/24 15:52		CMR
Hexachlorobutadiene	ND	0.040	0.023		ND	0.43	0.25	0.809	3/13/24 15:52		CMR
Hexane	1.2	1.6	0.85	J	4.2	5.7	3.0	0.809	3/13/24 15:52		CMR
2-Hexanone (MBK)	ND	0.040	0.018		ND	0.17	0.072	0.809	3/13/24 15:52		CMR
Isopropanol	1.8	1.6	0.85		4.5	4.0	2.1	0.809	3/13/24 15:52		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.020		ND	0.15	0.072	0.809	3/13/24 15:52		CMR
Methylene Chloride	0.14	0.40	0.11	J	0.48	1.4	0.38	0.809	3/13/24 15:52		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.17	0.088	0.809	3/13/24 15:52		CMR
Naphthalene	0.090	0.040	0.033		0.47	0.21	0.17	0.809	3/13/24 15:52		CMR
Propene	ND	1.6	0.89		ND	2.8	1.5	0.809	3/13/24 15:52		CMR
Styrene	0.057	0.040	0.031		0.24	0.17	0.13	0.809	3/13/24 15:52		CMR
1,1,2,2-Tetrachloroethane	ND	0.040	0.010		ND	0.28	0.069	0.809	3/13/24 15:52		CMR

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Office Indoor-1
Sample ID: 24C0193-04
Sample Matrix: Air
Sampled: 2/29/2024 15:55

Sample Description/Location:
Sub Description/Location:
Canister ID: P1188
Canister Size: 6 liter
Flow Controller ID: FC2146
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -12
Receipt Vacuum(in Hg): -11.9
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
Tetrachloroethylene	0.073	0.040	0.035		0.49	0.27	0.24	0.809	3/13/24 15:52	CMR
Tetrahydrofuran	ND	0.40	0.15		ND	1.2	0.45	0.809	3/13/24 15:52	CMR
Toluene	4.4	0.040	0.020		17	0.15	0.076	0.809	3/13/24 15:52	CMR
1,2,4-Trichlorobenzene	ND	0.040	0.022		ND	0.30	0.16	0.809	3/13/24 15:52	CMR
1,1,1-Trichloroethane	ND	0.040	0.013		ND	0.22	0.069	0.809	3/13/24 15:52	CMR
1,1,2-Trichloroethane	ND	0.040	0.014		ND	0.22	0.077	0.809	3/13/24 15:52	CMR
Trichloroethylene	ND	0.040	0.031		ND	0.22	0.17	0.809	3/13/24 15:52	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.16	0.017		1.2	0.91	0.093	0.809	3/13/24 15:52	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.052	0.16	0.011	J	0.40	1.2	0.085	0.809	3/13/24 15:52	CMR
1,2,4-Trimethylbenzene	1.5	0.040	0.024		7.3	0.20	0.12	0.809	3/13/24 15:52	CMR
1,3,5-Trimethylbenzene	0.42	0.040	0.031		2.1	0.20	0.15	0.809	3/13/24 15:52	CMR
Vinyl Acetate	1.5	0.81	0.17		5.3	2.8	0.58	0.809	3/13/24 15:52	CMR
Vinyl Chloride	ND	0.040	0.021		ND	0.10	0.053	0.809	3/13/24 15:52	CMR
m&p-Xylene	3.7	0.081	0.028		16	0.35	0.12	0.809	3/13/24 15:52	CMR
o-Xylene	1.7	0.040	0.015		7.3	0.18	0.064	0.809	3/13/24 15:52	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	3/13/24 15:52

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Bathroom SS-1
Sample ID: 24C0193-05
Sample Matrix: Air
Sampled: 2/29/2024 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: P0531
Canister Size: 6 liter
Flow Controller ID: 5078
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.3
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		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Acetone	12	4.0	2.0		29	9.5	4.8	2	3/13/24 19:35	CMR
Benzene	ND	0.10	0.031		ND	0.32	0.099	2	3/13/24 19:35	CMR
Benzyl chloride	ND	0.10	0.054		ND	0.52	0.28	2	3/13/24 19:35	CMR
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	3/13/24 19:35	CMR
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	3/13/24 19:35	CMR
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	3/13/24 19:35	CMR
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	3/13/24 19:35	CMR
2-Butanone (MEK)	2.6	4.0	2.0	J	7.7	12	5.8	2	3/13/24 19:35	CMR
Carbon Disulfide	ND	1.0	0.19		ND	3.1	0.60	2	3/13/24 19:35	CMR
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	3/13/24 19:35	CMR
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	3/13/24 19:35	CMR
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	3/13/24 19:35	CMR
Chloroform	0.070	0.10	0.049	J	0.34	0.49	0.24	2	3/13/24 19:35	CMR
Chloromethane	0.43	0.20	0.13		0.90	0.41	0.28	2	3/13/24 19:35	CMR
Cyclohexane	ND	0.20	0.078		ND	0.69	0.27	2	3/13/24 19:35	CMR
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	3/13/24 19:35	CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	3/13/24 19:35	CMR
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	3/13/24 19:35	CMR
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	3/13/24 19:35	CMR
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	3/13/24 19:35	CMR
Dichlorodifluoromethane (Freon 12)	0.51	0.10	0.042		2.5	0.49	0.21	2	3/13/24 19:35	CMR
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	3/13/24 19:35	CMR
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	3/13/24 19:35	CMR
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	3/13/24 19:35	CMR
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	3/13/24 19:35	CMR
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	3/13/24 19:35	CMR
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	3/13/24 19:35	CMR
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	3/13/24 19:35	CMR
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	3/13/24 19:35	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	3/13/24 19:35	CMR
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	3/13/24 19:35	CMR
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	3/13/24 19:35	CMR
Ethyl Acetate	ND	1.0	0.39		ND	3.6	1.4	2	3/13/24 19:35	CMR
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	3/13/24 19:35	CMR
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	3/13/24 19:35	CMR
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	3/13/24 19:35	CMR
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	3/13/24 19:35	CMR
Hexane	ND	4.0	2.1		ND	14	7.4	2	3/13/24 19:35	CMR
2-Hexanone (MBK)	0.23	0.10	0.043		0.93	0.41	0.18	2	3/13/24 19:35	CMR
Isopropanol	ND	4.0	2.1		ND	9.8	5.2	2	3/13/24 19:35	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	3/13/24 19:35	CMR
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	3/13/24 19:35	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	3/13/24 19:35	CMR
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	3/13/24 19:35	CMR
Propene	ND	4.0	2.2		ND	6.9	3.8	2	3/13/24 19:35	CMR
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	3/13/24 19:35	CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	3/13/24 19:35	CMR

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Bathroom SS-1
Sample ID: 24C0193-05
Sample Matrix: Air
Sampled: 2/29/2024 13:30

Sample Description/Location:
Sub Description/Location:
Canister ID: P0531
Canister Size: 6 liter
Flow Controller ID: 5078
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.3
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	
Tetrachloroethylene	12	0.10	0.086			84	0.68	0.58	2	3/13/24 19:35	CMR
Tetrahydrofuran	ND	1.0	0.38			ND	2.9	1.1	2	3/13/24 19:35	CMR
Toluene	ND	0.10	0.050			ND	0.38	0.19	2	3/13/24 19:35	CMR
1,2,4-Trichlorobenzene	ND	0.10	0.055			ND	0.74	0.41	2	3/13/24 19:35	CMR
1,1,1-Trichloroethane	1.2	0.10	0.031			6.5	0.55	0.17	2	3/13/24 19:35	CMR
1,1,2-Trichloroethane	ND	0.10	0.035			ND	0.55	0.19	2	3/13/24 19:35	CMR
Trichloroethylene	0.80	0.10	0.077			4.3	0.54	0.41	2	3/13/24 19:35	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.041	J		1.4	2.2	0.23	2	3/13/24 19:35	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.094	0.40	0.027	J		0.72	3.1	0.21	2	3/13/24 19:35	CMR
1,2,4-Trimethylbenzene	ND	0.10	0.060			ND	0.49	0.29	2	3/13/24 19:35	CMR
1,3,5-Trimethylbenzene	ND	0.10	0.077			ND	0.49	0.38	2	3/13/24 19:35	CMR
Vinyl Acetate	0.65	2.0	0.41	J		2.3	7.0	1.4	2	3/13/24 19:35	CMR
Vinyl Chloride	ND	0.10	0.051			ND	0.26	0.13	2	3/13/24 19:35	CMR
m&p-Xylene	ND	0.20	0.070			ND	0.87	0.30	2	3/13/24 19:35	CMR
o-Xylene	ND	0.10	0.037			ND	0.43	0.16	2	3/13/24 19:35	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	94.4	70-130	3/13/24 19:35

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Bathroom Indoor-1
Sample ID: 24C0193-06
Sample Matrix: Air
Sampled: 2/29/2024 16:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1247
Canister Size: 6 liter
Flow Controller ID: 3642
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -13
Receipt Vacuum(in Hg): -16.7
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		
Acetone	70	1.6	0.81	E	170	3.8	1.9	0.8	3/13/24 16:28		CMR
Benzene	0.74	0.040	0.012		2.4	0.13	0.040	0.8	3/13/24 16:28		CMR
Benzyl chloride	ND	0.040	0.021		ND	0.21	0.11	0.8	3/13/24 16:28		CMR
Bromodichloromethane	0.13	0.040	0.016		0.90	0.27	0.11	0.8	3/13/24 16:28		CMR
Bromoform	0.018	0.040	0.014	J	0.19	0.41	0.15	0.8	3/13/24 16:28		CMR
Bromomethane	ND	0.040	0.034		ND	0.16	0.13	0.8	3/13/24 16:28		CMR
1,3-Butadiene	ND	0.040	0.033		ND	0.088	0.074	0.8	3/13/24 16:28		CMR
2-Butanone (MEK)	ND	1.6	0.78		ND	4.7	2.3	0.8	3/13/24 16:28		CMR
Carbon Disulfide	ND	0.40	0.077		ND	1.2	0.24	0.8	3/13/24 16:28		CMR
Carbon Tetrachloride	0.11	0.040	0.031		0.69	0.25	0.20	0.8	3/13/24 16:28		CMR
Chlorobenzene	ND	0.040	0.013		ND	0.18	0.061	0.8	3/13/24 16:28		CMR
Chloroethane	ND	0.040	0.037		ND	0.11	0.097	0.8	3/13/24 16:28		CMR
Chloroform	0.22	0.040	0.020		1.1	0.20	0.095	0.8	3/13/24 16:28		CMR
Chloromethane	0.63	0.080	0.053		1.3	0.17	0.11	0.8	3/13/24 16:28		CMR
Cyclohexane	0.41	0.080	0.031		1.4	0.28	0.11	0.8	3/13/24 16:28		CMR
Dibromochloromethane	ND	0.040	0.027		ND	0.34	0.23	0.8	3/13/24 16:28		CMR
1,2-Dibromoethane (EDB)	ND	0.040	0.025		ND	0.31	0.19	0.8	3/13/24 16:28		CMR
1,2-Dichlorobenzene	0.014	0.040	0.014	J	0.087	0.24	0.084	0.8	3/13/24 16:28		CMR
1,3-Dichlorobenzene	0.027	0.040	0.015	J	0.16	0.24	0.089	0.8	3/13/24 16:28		CMR
1,4-Dichlorobenzene	ND	0.040	0.019		ND	0.24	0.12	0.8	3/13/24 16:28		CMR
Dichlorodifluoromethane (Freon 12)	0.51	0.040	0.017		2.5	0.20	0.083	0.8	3/13/24 16:28		CMR
1,1-Dichloroethane	ND	0.040	0.019		ND	0.16	0.079	0.8	3/13/24 16:28		CMR
1,2-Dichloroethane	0.042	0.040	0.015		0.17	0.16	0.061	0.8	3/13/24 16:28		CMR
1,1-Dichloroethylene	ND	0.040	0.028		ND	0.16	0.11	0.8	3/13/24 16:28		CMR
cis-1,2-Dichloroethylene	ND	0.040	0.019		ND	0.16	0.077	0.8	3/13/24 16:28		CMR
trans-1,2-Dichloroethylene	0.022	0.040	0.019	J	0.089	0.16	0.075	0.8	3/13/24 16:28		CMR
1,2-Dichloropropane	ND	0.040	0.030		ND	0.18	0.14	0.8	3/13/24 16:28		CMR
cis-1,3-Dichloropropene	ND	0.040	0.020		ND	0.18	0.092	0.8	3/13/24 16:28		CMR
trans-1,3-Dichloropropene	ND	0.040	0.039		ND	0.18	0.18	0.8	3/13/24 16:28		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.028	0.040	0.016	J	0.20	0.28	0.11	0.8	3/13/24 16:28		CMR
1,4-Dioxane	ND	0.40	0.20		ND	1.4	0.71	0.8	3/13/24 16:28		CMR
Ethanol	61	1.6	1.1	E	110	3.0	2.0	0.8	3/13/24 16:28		CMR
Ethyl Acetate	0.41	0.40	0.16		1.5	1.4	0.57	0.8	3/13/24 16:28		CMR
Ethylbenzene	0.90	0.040	0.014		3.9	0.17	0.059	0.8	3/13/24 16:28		CMR
4-Ethyltoluene	0.93	0.040	0.017		4.6	0.20	0.085	0.8	3/13/24 16:28		CMR
Heptane	1.2	0.040	0.025		5.0	0.16	0.10	0.8	3/13/24 16:28		CMR
Hexachlorobutadiene	ND	0.040	0.023		ND	0.43	0.25	0.8	3/13/24 16:28		CMR
Hexane	1.2	1.6	0.84	J	4.2	5.6	2.9	0.8	3/13/24 16:28		CMR
2-Hexanone (MBK)	ND	0.040	0.017		ND	0.16	0.071	0.8	3/13/24 16:28		CMR
Isopropanol	2.1	1.6	0.84		5.2	3.9	2.1	0.8	3/13/24 16:28		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.040	0.020		ND	0.14	0.071	0.8	3/13/24 16:28		CMR
Methylene Chloride	0.16	0.40	0.11	J	0.56	1.4	0.37	0.8	3/13/24 16:28		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.021		ND	0.16	0.087	0.8	3/13/24 16:28		CMR
Naphthalene	0.054	0.040	0.032		0.28	0.21	0.17	0.8	3/13/24 16:28		CMR
Propene	ND	1.6	0.88		ND	2.8	1.5	0.8	3/13/24 16:28		CMR
Styrene	0.056	0.040	0.031		0.24	0.17	0.13	0.8	3/13/24 16:28		CMR
1,1,2,2-Tetrachloroethane	ND	0.040	0.0099		ND	0.27	0.068	0.8	3/13/24 16:28		CMR

ANALYTICAL RESULTS

Project Location:

Date Received: 3/1/2024

Field Sample #: Bathroom Indoor-1
Sample ID: 24C0193-06

Sample Matrix: Air

Sampled: 2/29/2024 16:05

Sample Description/Location:

Sub Description/Location:

Canister ID: 1247

Canister Size: 6 liter

Flow Controller ID: 3642

Sample Type: 8 hr

Work Order: 24C0193

Initial Vacuum(in Hg): -28

Final Vacuum(in Hg): -13

Receipt Vacuum(in Hg): -16.7

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		
Tetrachloroethylene	0.15	0.040	0.034		1.0	0.27	0.23	0.8	3/13/24 16:28		CMR
Tetrahydrofuran	ND	0.40	0.15		ND	1.2	0.45	0.8	3/13/24 16:28		CMR
Toluene	3.6	0.040	0.020		14	0.15	0.075	0.8	3/13/24 16:28		CMR
1,2,4-Trichlorobenzene	ND	0.040	0.022		ND	0.30	0.16	0.8	3/13/24 16:28		CMR
1,1,1-Trichloroethane	0.027	0.040	0.013	J	0.15	0.22	0.068	0.8	3/13/24 16:28		CMR
1,1,2-Trichloroethane	ND	0.040	0.014		ND	0.22	0.076	0.8	3/13/24 16:28		CMR
Trichloroethylene	ND	0.040	0.031		ND	0.21	0.16	0.8	3/13/24 16:28		CMR
Trichlorofluoromethane (Freon 11)	0.22	0.16	0.016		1.2	0.90	0.092	0.8	3/13/24 16:28		CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.16	0.011	J	0.64	1.2	0.084	0.8	3/13/24 16:28		CMR
1,2,4-Trimethylbenzene	1.1	0.040	0.024		5.3	0.20	0.12	0.8	3/13/24 16:28		CMR
1,3,5-Trimethylbenzene	0.32	0.040	0.031		1.6	0.20	0.15	0.8	3/13/24 16:28		CMR
Vinyl Acetate	1.5	0.80	0.16		5.3	2.8	0.58	0.8	3/13/24 16:28		CMR
Vinyl Chloride	ND	0.040	0.020		ND	0.10	0.052	0.8	3/13/24 16:28		CMR
m&p-Xylene	2.9	0.080	0.028		12	0.35	0.12	0.8	3/13/24 16:28		CMR
o-Xylene	1.3	0.040	0.015		5.5	0.17	0.064	0.8	3/13/24 16:28		CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	3/13/24 16:28

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Duplicate-1
Sample ID: 24C0193-07
 Sample Matrix: Air
 Sampled: 2/29/2024 13:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P2713
 Canister Size: 6 liter
 Flow Controller ID: 5078
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 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
Acetone	2.3	4.0	2.0	J	5.5	9.5	4.8	2	3/13/24 20:04	CMR
Benzene	ND	0.10	0.031		ND	0.32	0.099	2	3/13/24 20:04	CMR
Benzyl chloride	ND	0.10	0.054		ND	0.52	0.28	2	3/13/24 20:04	CMR
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	3/13/24 20:04	CMR
Bromoform	ND	0.10	0.036		ND	1.0	0.37	2	3/13/24 20:04	CMR
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	3/13/24 20:04	CMR
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	3/13/24 20:04	CMR
2-Butanone (MEK)	ND	4.0	2.0		ND	12	5.8	2	3/13/24 20:04	CMR
Carbon Disulfide	ND	1.0	0.19		ND	3.1	0.60	2	3/13/24 20:04	CMR
Carbon Tetrachloride	0.080	0.10	0.079	J	0.50	0.63	0.50	2	3/13/24 20:04	CMR
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	3/13/24 20:04	CMR
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	3/13/24 20:04	CMR
Chloroform	0.064	0.10	0.049	J	0.31	0.49	0.24	2	3/13/24 20:04	CMR
Chloromethane	ND	0.20	0.13		ND	0.41	0.28	2	3/13/24 20:04	CMR
Cyclohexane	ND	0.20	0.078		ND	0.69	0.27	2	3/13/24 20:04	CMR
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	3/13/24 20:04	CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	3/13/24 20:04	CMR
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	3/13/24 20:04	CMR
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	3/13/24 20:04	CMR
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	3/13/24 20:04	CMR
Dichlorodifluoromethane (Freon 12)	0.50	0.10	0.042		2.5	0.49	0.21	2	3/13/24 20:04	CMR
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	3/13/24 20:04	CMR
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	3/13/24 20:04	CMR
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	3/13/24 20:04	CMR
cis-1,2-Dichloroethylene	ND	0.10	0.048		ND	0.40	0.19	2	3/13/24 20:04	CMR
trans-1,2-Dichloroethylene	ND	0.10	0.047		ND	0.40	0.19	2	3/13/24 20:04	CMR
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	3/13/24 20:04	CMR
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	3/13/24 20:04	CMR
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	3/13/24 20:04	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	3/13/24 20:04	CMR
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	3/13/24 20:04	CMR
Ethanol	ND	4.0	2.7		ND	7.5	5.0	2	3/13/24 20:04	CMR
Ethyl Acetate	ND	1.0	0.39		ND	3.6	1.4	2	3/13/24 20:04	CMR
Ethylbenzene	ND	0.10	0.034		ND	0.43	0.15	2	3/13/24 20:04	CMR
4-Ethyltoluene	ND	0.10	0.043		ND	0.49	0.21	2	3/13/24 20:04	CMR
Heptane	ND	0.10	0.063		ND	0.41	0.26	2	3/13/24 20:04	CMR
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	3/13/24 20:04	CMR
Hexane	ND	4.0	2.1		ND	14	7.4	2	3/13/24 20:04	CMR
2-Hexanone (MBK)	0.13	0.10	0.043		0.52	0.41	0.18	2	3/13/24 20:04	CMR
Isopropanol	ND	4.0	2.1		ND	9.8	5.2	2	3/13/24 20:04	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	3/13/24 20:04	CMR
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	3/13/24 20:04	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	3/13/24 20:04	CMR
Naphthalene	ND	0.10	0.081		ND	0.52	0.43	2	3/13/24 20:04	CMR
Propene	ND	4.0	2.2		ND	6.9	3.8	2	3/13/24 20:04	CMR
Styrene	ND	0.10	0.077		ND	0.43	0.33	2	3/13/24 20:04	CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	3/13/24 20:04	CMR

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Duplicate-1
Sample ID: 24C0193-07
 Sample Matrix: Air
 Sampled: 2/29/2024 13:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P2713
 Canister Size: 6 liter
 Flow Controller ID: 5078
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4
 Receipt Vacuum(in Hg): -4.3
 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	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	12	0.10	0.086		85	0.68	0.58	2	3/13/24 20:04	CMR
Tetrahydrofuran	ND	1.0	0.38		ND	2.9	1.1	2	3/13/24 20:04	CMR
Toluene	ND	0.10	0.050		ND	0.38	0.19	2	3/13/24 20:04	CMR
1,2,4-Trichlorobenzene	ND	0.10	0.055		ND	0.74	0.41	2	3/13/24 20:04	CMR
1,1,1-Trichloroethane	1.2	0.10	0.031		6.6	0.55	0.17	2	3/13/24 20:04	CMR
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	3/13/24 20:04	CMR
Trichloroethylene	0.82	0.10	0.077		4.4	0.54	0.41	2	3/13/24 20:04	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.041	J	1.3	2.2	0.23	2	3/13/24 20:04	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.40	0.027	J	0.46	3.1	0.21	2	3/13/24 20:04	CMR
1,2,4-Trimethylbenzene	ND	0.10	0.060		ND	0.49	0.29	2	3/13/24 20:04	CMR
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	3/13/24 20:04	CMR
Vinyl Acetate	ND	2.0	0.41		ND	7.0	1.4	2	3/13/24 20:04	CMR
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	3/13/24 20:04	CMR
m&p-Xylene	ND	0.20	0.070		ND	0.87	0.30	2	3/13/24 20:04	CMR
o-Xylene	ND	0.10	0.037		ND	0.43	0.16	2	3/13/24 20:04	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	96.8	70-130	3/13/24 20:04

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Drivers Bathroom SS-1
Sample ID: 24C0193-08
 Sample Matrix: Air
 Sampled: 2/29/2024 16:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2075
 Canister Size: 6 liter
 Flow Controller ID: FC2041
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -8.1
 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	
Acetone	7.9	4.0	2.0			19	9.5	4.8	2	3/13/24 20:34	CMR
Benzene	0.27	0.10	0.031			0.85	0.32	0.099	2	3/13/24 20:34	CMR
Benzyl chloride	ND	0.10	0.054			ND	0.52	0.28	2	3/13/24 20:34	CMR
Bromodichloromethane	0.65	0.10	0.041			4.3	0.67	0.27	2	3/13/24 20:34	CMR
Bromoform	ND	0.10	0.036			ND	1.0	0.37	2	3/13/24 20:34	CMR
Bromomethane	ND	0.10	0.085			ND	0.39	0.33	2	3/13/24 20:34	CMR
1,3-Butadiene	ND	0.10	0.084			ND	0.22	0.19	2	3/13/24 20:34	CMR
2-Butanone (MEK)	2.1	4.0	2.0	J		6.1	12	5.8	2	3/13/24 20:34	CMR
Carbon Disulfide	ND	1.0	0.19			ND	3.1	0.60	2	3/13/24 20:34	CMR
Carbon Tetrachloride	ND	0.10	0.079			ND	0.63	0.50	2	3/13/24 20:34	CMR
Chlorobenzene	ND	0.10	0.033			ND	0.46	0.15	2	3/13/24 20:34	CMR
Chloroethane	ND	0.10	0.092			ND	0.26	0.24	2	3/13/24 20:34	CMR
Chloroform	1.2	0.10	0.049			5.9	0.49	0.24	2	3/13/24 20:34	CMR
Chloromethane	ND	0.20	0.13			ND	0.41	0.28	2	3/13/24 20:34	CMR
Cyclohexane	ND	0.20	0.078			ND	0.69	0.27	2	3/13/24 20:34	CMR
Dibromochloromethane	0.14	0.10	0.067			1.2	0.85	0.57	2	3/13/24 20:34	CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062			ND	0.77	0.48	2	3/13/24 20:34	CMR
1,2-Dichlorobenzene	ND	0.10	0.035			ND	0.60	0.21	2	3/13/24 20:34	CMR
1,3-Dichlorobenzene	ND	0.10	0.037			ND	0.60	0.22	2	3/13/24 20:34	CMR
1,4-Dichlorobenzene	ND	0.10	0.048			ND	0.60	0.29	2	3/13/24 20:34	CMR
Dichlorodifluoromethane (Freon 12)	0.39	0.10	0.042			1.9	0.49	0.21	2	3/13/24 20:34	CMR
1,1-Dichloroethane	ND	0.10	0.049			ND	0.40	0.20	2	3/13/24 20:34	CMR
1,2-Dichloroethane	ND	0.10	0.038			ND	0.40	0.15	2	3/13/24 20:34	CMR
1,1-Dichloroethylene	ND	0.10	0.070			ND	0.40	0.28	2	3/13/24 20:34	CMR
cis-1,2-Dichloroethylene	ND	0.10	0.048			ND	0.40	0.19	2	3/13/24 20:34	CMR
trans-1,2-Dichloroethylene	ND	0.10	0.047			ND	0.40	0.19	2	3/13/24 20:34	CMR
1,2-Dichloropropane	ND	0.10	0.074			ND	0.46	0.34	2	3/13/24 20:34	CMR
cis-1,3-Dichloropropene	ND	0.10	0.051			ND	0.45	0.23	2	3/13/24 20:34	CMR
trans-1,3-Dichloropropene	ND	0.10	0.097			ND	0.45	0.44	2	3/13/24 20:34	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040			ND	0.70	0.28	2	3/13/24 20:34	CMR
1,4-Dioxane	ND	1.0	0.49			ND	3.6	1.8	2	3/13/24 20:34	CMR
Ethanol	14	4.0	2.7			26	7.5	5.0	2	3/13/24 20:34	CMR
Ethyl Acetate	ND	1.0	0.39			ND	3.6	1.4	2	3/13/24 20:34	CMR
Ethylbenzene	0.51	0.10	0.034			2.2	0.43	0.15	2	3/13/24 20:34	CMR
4-Ethyltoluene	0.19	0.10	0.043			0.95	0.49	0.21	2	3/13/24 20:34	CMR
Heptane	0.40	0.10	0.063			1.7	0.41	0.26	2	3/13/24 20:34	CMR
Hexachlorobutadiene	ND	0.10	0.058			ND	1.1	0.61	2	3/13/24 20:34	CMR
Hexane	ND	4.0	2.1			ND	14	7.4	2	3/13/24 20:34	CMR
2-Hexanone (MBK)	ND	0.10	0.043			ND	0.41	0.18	2	3/13/24 20:34	CMR
Isopropanol	ND	4.0	2.1			ND	9.8	5.2	2	3/13/24 20:34	CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049			ND	0.36	0.18	2	3/13/24 20:34	CMR
Methylene Chloride	ND	1.0	0.27			ND	3.5	0.93	2	3/13/24 20:34	CMR
4-Methyl-2-pentanone (MIBK)	0.87	0.10	0.053			3.5	0.41	0.22	2	3/13/24 20:34	CMR
Naphthalene	ND	0.10	0.081			ND	0.52	0.43	2	3/13/24 20:34	CMR
Propene	ND	4.0	2.2			ND	6.9	3.8	2	3/13/24 20:34	CMR
Styrene	ND	0.10	0.077			ND	0.43	0.33	2	3/13/24 20:34	CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025			ND	0.69	0.17	2	3/13/24 20:34	CMR

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Drivers Bathroom SS-1
Sample ID: 24C0193-08
Sample Matrix: Air
Sampled: 2/29/2024 16:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 2075
Canister Size: 6 liter
Flow Controller ID: FC2041
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -10
Receipt Vacuum(in Hg): -8.1
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	
Tetrachloroethylene	0.46	0.10	0.086		3.1	0.68	0.58	2	3/13/24 20:34	CMR	
Tetrahydrofuran	ND	1.0	0.38		ND	2.9	1.1	2	3/13/24 20:34	CMR	
Toluene	2.1	0.10	0.050		7.9	0.38	0.19	2	3/13/24 20:34	CMR	
1,2,4-Trichlorobenzene	ND	0.10	0.055		ND	0.74	0.41	2	3/13/24 20:34	CMR	
1,1,1-Trichloroethane	0.092	0.10	0.031	J	0.50	0.55	0.17	2	3/13/24 20:34	CMR	
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	3/13/24 20:34	CMR	
Trichloroethylene	0.14	0.10	0.077		0.73	0.54	0.41	2	3/13/24 20:34	CMR	
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.041	J	1.3	2.2	0.23	2	3/13/24 20:34	CMR	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.080	0.40	0.027	J	0.61	3.1	0.21	2	3/13/24 20:34	CMR	
1,2,4-Trimethylbenzene	0.18	0.10	0.060		0.89	0.49	0.29	2	3/13/24 20:34	CMR	
1,3,5-Trimethylbenzene	ND	0.10	0.077		ND	0.49	0.38	2	3/13/24 20:34	CMR	
Vinyl Acetate	0.68	2.0	0.41	J	2.4	7.0	1.4	2	3/13/24 20:34	CMR	
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	3/13/24 20:34	CMR	
m&p-Xylene	1.7	0.20	0.070		7.2	0.87	0.30	2	3/13/24 20:34	CMR	
o-Xylene	0.56	0.10	0.037		2.4	0.43	0.16	2	3/13/24 20:34	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.0	70-130	3/13/24 20:34

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Drivers Bathroom Indoor-1
Sample ID: 24C0193-09
Sample Matrix: Air
Sampled: 2/29/2024 16:20

Sample Description/Location:
Sub Description/Location:
Canister ID: P0127
Canister Size: 6 liter
Flow Controller ID: FC2039
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -6.7
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		
Acetone	45	1.4	0.71	E	110	3.3	1.7	0.698	3/13/24 17:02		CMR
Benzene	1.5	0.035	0.011		4.9	0.11	0.034	0.698	3/13/24 17:02		CMR
Benzyl chloride	ND	0.035	0.019		ND	0.18	0.097	0.698	3/13/24 17:02		CMR
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24 17:02		CMR
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24 17:02		CMR
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24 17:02		CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/13/24 17:02		CMR
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24 17:02		CMR
Carbon Disulfide	ND	0.35	0.067		ND	1.1	0.21	0.698	3/13/24 17:02		CMR
Carbon Tetrachloride	0.036	0.035	0.027		0.22	0.22	0.17	0.698	3/13/24 17:02		CMR
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24 17:02		CMR
Chloroethane	0.053	0.035	0.032		0.14	0.092	0.084	0.698	3/13/24 17:02		CMR
Chloroform	ND	0.035	0.017		ND	0.17	0.083	0.698	3/13/24 17:02		CMR
Chloromethane	0.49	0.070	0.047		1.0	0.14	0.096	0.698	3/13/24 17:02		CMR
Cyclohexane	0.77	0.070	0.027		2.7	0.24	0.093	0.698	3/13/24 17:02		CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24 17:02		CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24 17:02		CMR
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24 17:02		CMR
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24 17:02		CMR
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24 17:02		CMR
Dichlorodifluoromethane (Freon 12)	0.52	0.035	0.015		2.6	0.17	0.072	0.698	3/13/24 17:02		CMR
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24 17:02		CMR
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	3/13/24 17:02		CMR
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24 17:02		CMR
cis-1,2-Dichloroethylene	ND	0.035	0.017		ND	0.14	0.067	0.698	3/13/24 17:02		CMR
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24 17:02		CMR
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24 17:02		CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24 17:02		CMR
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24 17:02		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.024	0.035	0.014	J	0.17	0.24	0.098	0.698	3/13/24 17:02		CMR
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24 17:02		CMR
Ethanol	64	1.4	0.93	E	120	2.6	1.7	0.698	3/13/24 17:02		CMR
Ethyl Acetate	ND	0.35	0.14		ND	1.3	0.49	0.698	3/13/24 17:02		CMR
Ethylbenzene	3.3	0.035	0.012		14	0.15	0.052	0.698	3/13/24 17:02		CMR
4-Ethyltoluene	3.6	0.035	0.015		18	0.17	0.075	0.698	3/13/24 17:02		CMR
Heptane	2.9	0.035	0.022		12	0.14	0.090	0.698	3/13/24 17:02		CMR
Hexachlorobutadiene	0.022	0.035	0.020	J	0.24	0.37	0.21	0.698	3/13/24 17:02		CMR
Hexane	2.1	1.4	0.73		7.4	4.9	2.6	0.698	3/13/24 17:02		CMR
2-Hexanone (MBK)	ND	0.035	0.015		ND	0.14	0.062	0.698	3/13/24 17:02		CMR
Isopropanol	ND	1.4	0.73		ND	3.4	1.8	0.698	3/13/24 17:02		CMR
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.017		ND	0.13	0.062	0.698	3/13/24 17:02		CMR
Methylene Chloride	0.14	0.35	0.094	J	0.49	1.2	0.33	0.698	3/13/24 17:02		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24 17:02		CMR
Naphthalene	0.055	0.035	0.028		0.29	0.18	0.15	0.698	3/13/24 17:02		CMR
Propene	ND	1.4	0.77		ND	2.4	1.3	0.698	3/13/24 17:02		CMR
Styrene	0.035	0.035	0.027		0.15	0.15	0.12	0.698	3/13/24 17:02		CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24 17:02		CMR

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Drivers Bathroom Indoor-1
Sample ID: 24C0193-09
Sample Matrix: Air
Sampled: 2/29/2024 16:20

Sample Description/Location:
Sub Description/Location:
Canister ID: P0127
Canister Size: 6 liter
Flow Controller ID: FC2039
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -6.7
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		Analyst
	Results	RL	MDL		Results	RL	MDL	Dilution	Analyzed	
Tetrachloroethylene	0.046	0.035	0.030		0.31	0.24	0.20	0.698	3/13/24 17:02	CMR
Tetrahydrofuran	0.14	0.35	0.13	J	0.42	1.0	0.39	0.698	3/13/24 17:02	CMR
Toluene	11	0.035	0.017		42	0.13	0.066	0.698	3/13/24 17:02	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24 17:02	CMR
1,1,1-Trichloroethane	0.020	0.035	0.011	J	0.11	0.19	0.059	0.698	3/13/24 17:02	CMR
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24 17:02	CMR
Trichloroethylene	0.028	0.035	0.027	J	0.15	0.19	0.14	0.698	3/13/24 17:02	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.14	0.014		1.4	0.78	0.080	0.698	3/13/24 17:02	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.070	0.14	0.0095	J	0.53	1.1	0.073	0.698	3/13/24 17:02	CMR
1,2,4-Trimethylbenzene	3.3	0.035	0.021		16	0.17	0.10	0.698	3/13/24 17:02	CMR
1,3,5-Trimethylbenzene	1.1	0.035	0.027		5.2	0.17	0.13	0.698	3/13/24 17:02	CMR
Vinyl Acetate	1.9	0.70	0.14		6.8	2.5	0.50	0.698	3/13/24 17:02	CMR
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24 17:02	CMR
m&p-Xylene	12	0.070	0.024		52	0.30	0.11	0.698	3/13/24 17:02	CMR
o-Xylene	4.9	0.035	0.013		21	0.15	0.055	0.698	3/13/24 17:02	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	3/13/24 17:02

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Locker Room SS-1
Sample ID: 24C0193-10
 Sample Matrix: Air
 Sampled: 2/29/2024 16:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3404
 Canister Size: 6 liter
 Flow Controller ID: FC0384
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -9.5
 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		
Acetone	7.0	4.0	2.0	J	17	9.5	4.8	2	3/13/24 21:03	CMR	
Benzene	0.040	0.10	0.031		0.13	0.32	0.099	2	3/13/24 21:03	CMR	
Benzyl chloride	ND	0.10	0.054		ND	0.52	0.28	2	3/13/24 21:03	CMR	
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	3/13/24 21:03	CMR	
Bromoform	ND	0.10	0.036	J	ND	1.0	0.37	2	3/13/24 21:03	CMR	
Bromomethane	0.11	0.10	0.085		0.43	0.39	0.33	2	3/13/24 21:03	CMR	
1,3-Butadiene	ND	0.10	0.084		ND	0.22	0.19	2	3/13/24 21:03	CMR	
2-Butanone (MEK)	ND	4.0	2.0		ND	12	5.8	2	3/13/24 21:03	CMR	
Carbon Disulfide	0.25	1.0	0.19		0.78	3.1	0.60	2	3/13/24 21:03	CMR	
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	3/13/24 21:03	CMR	
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	3/13/24 21:03	CMR	
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	3/13/24 21:03	CMR	
Chloroform	ND	0.10	0.049		ND	0.49	0.24	2	3/13/24 21:03	CMR	
Chloromethane	0.59	0.20	0.13		1.2	0.41	0.28	2	3/13/24 21:03	CMR	
Cyclohexane	0.91	0.20	0.078		3.1	0.69	0.27	2	3/13/24 21:03	CMR	
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	3/13/24 21:03	CMR	
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	3/13/24 21:03	CMR	
1,2-Dichlorobenzene	ND	0.10	0.035		ND	0.60	0.21	2	3/13/24 21:03	CMR	
1,3-Dichlorobenzene	ND	0.10	0.037		ND	0.60	0.22	2	3/13/24 21:03	CMR	
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	3/13/24 21:03	CMR	
Dichlorodifluoromethane (Freon 12)	0.52	0.10	0.042	2.6	0.49	0.21	2	3/13/24 21:03	CMR		
1,1-Dichloroethane	ND	0.10	0.049	ND	0.40	0.20	2	3/13/24 21:03	CMR		
1,2-Dichloroethane	ND	0.10	0.038	ND	0.40	0.15	2	3/13/24 21:03	CMR		
1,1-Dichloroethylene	ND	0.10	0.070	ND	0.40	0.28	2	3/13/24 21:03	CMR		
cis-1,2-Dichloroethylene	ND	0.10	0.048	ND	0.40	0.19	2	3/13/24 21:03	CMR		
trans-1,2-Dichloroethylene	ND	0.10	0.047	ND	0.40	0.19	2	3/13/24 21:03	CMR		
1,2-Dichloropropane	ND	0.10	0.074	ND	0.46	0.34	2	3/13/24 21:03	CMR		
cis-1,3-Dichloropropene	ND	0.10	0.051	ND	0.45	0.23	2	3/13/24 21:03	CMR		
trans-1,3-Dichloropropene	ND	0.10	0.097	ND	0.45	0.44	2	3/13/24 21:03	CMR		
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040	ND	0.70	0.28	2	3/13/24 21:03	CMR		
1,4-Dioxane	ND	1.0	0.49	ND	3.6	1.8	2	3/13/24 21:03	CMR		
Ethanol	ND	4.0	2.7	J	ND	7.5	5.0	2	3/13/24 21:03	CMR	
Ethyl Acetate	ND	1.0	0.39		ND	3.6	1.4	2	3/13/24 21:03	CMR	
Ethylbenzene	0.054	0.10	0.034		0.23	0.43	0.15	2	3/13/24 21:03	CMR	
4-Ethyltoluene	0.15	0.10	0.043		0.72	0.49	0.21	2	3/13/24 21:03	CMR	
Heptane	0.88	0.10	0.063		3.6	0.41	0.26	2	3/13/24 21:03	CMR	
Hexachlorobutadiene	ND	0.10	0.058		ND	1.1	0.61	2	3/13/24 21:03	CMR	
Hexane	ND	4.0	2.1		ND	14	7.4	2	3/13/24 21:03	CMR	
2-Hexanone (MBK)	ND	0.10	0.043		ND	0.41	0.18	2	3/13/24 21:03	CMR	
Isopropanol	ND	4.0	2.1		ND	9.8	5.2	2	3/13/24 21:03	CMR	
Methyl tert-Butyl Ether (MTBE)	ND	0.10	0.049		ND	0.36	0.18	2	3/13/24 21:03	CMR	
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	3/13/24 21:03	CMR	
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.053		ND	0.41	0.22	2	3/13/24 21:03	CMR	
Naphthalene	ND	0.10	0.081	ND	0.52	0.43	2	3/13/24 21:03	CMR		
Propene	ND	4.0	2.2	ND	6.9	3.8	2	3/13/24 21:03	CMR		
Styrene	ND	0.10	0.077	ND	0.43	0.33	2	3/13/24 21:03	CMR		
1,1,2,2-Tetrachloroethane	ND	0.10	0.025	ND	0.69	0.17	2	3/13/24 21:03	CMR		

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Locker Room SS-1
Sample ID: 24C0193-10
 Sample Matrix: Air
 Sampled: 2/29/2024 16:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3404
 Canister Size: 6 liter
 Flow Controller ID: FC0384
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): -9.5
 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	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	6.4	0.10	0.086		43	0.68	0.58	2	3/13/24 21:03	CMR
Tetrahydrofuran	ND	1.0	0.38		ND	2.9	1.1	2	3/13/24 21:03	CMR
Toluene	0.12	0.10	0.050		0.47	0.38	0.19	2	3/13/24 21:03	CMR
1,2,4-Trichlorobenzene	ND	0.10	0.055		ND	0.74	0.41	2	3/13/24 21:03	CMR
1,1,1-Trichloroethane	0.14	0.10	0.031		0.77	0.55	0.17	2	3/13/24 21:03	CMR
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	3/13/24 21:03	CMR
Trichloroethylene	0.092	0.10	0.077	J	0.49	0.54	0.41	2	3/13/24 21:03	CMR
Trichlorofluoromethane (Freon 11)	0.24	0.40	0.041	J	1.4	2.2	0.23	2	3/13/24 21:03	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.054	0.40	0.027	J	0.41	3.1	0.21	2	3/13/24 21:03	CMR
1,2,4-Trimethylbenzene	0.30	0.10	0.060		1.5	0.49	0.29	2	3/13/24 21:03	CMR
1,3,5-Trimethylbenzene	0.10	0.10	0.077		0.49	0.49	0.38	2	3/13/24 21:03	CMR
Vinyl Acetate	1.0	2.0	0.41	J	3.6	7.0	1.4	2	3/13/24 21:03	CMR
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	3/13/24 21:03	CMR
m&p-Xylene	0.38	0.20	0.070		1.6	0.87	0.30	2	3/13/24 21:03	CMR
o-Xylene	0.096	0.10	0.037	J	0.42	0.43	0.16	2	3/13/24 21:03	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.6	70-130	3/13/24 21:03

ANALYTICAL RESULTS

Project Location:
Date Received: 3/1/2024
Field Sample #: Locker Room Indoor-1
Sample ID: 24C0193-11
Sample Matrix: Air
Sampled: 2/29/2024 16:30

Sample Description/Location:
Sub Description/Location:
Canister ID: P0958
Canister Size: 6 liter
Flow Controller ID: FC1378
Sample Type: 8 hr

Work Order: 24C0193
Initial Vacuum(in Hg): -30+
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -6.6
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		
Acetone	150	1.4	0.71	E	350	3.3	1.7	0.698	3/13/24 17:37		CMR
Benzene	1.0	0.035	0.011		3.4	0.11	0.034	0.698	3/13/24 17:37		CMR
Benzyl chloride	ND	0.035	0.019		ND	0.18	0.097	0.698	3/13/24 17:37		CMR
Bromodichloromethane	ND	0.035	0.014		ND	0.23	0.096	0.698	3/13/24 17:37		CMR
Bromoform	ND	0.035	0.012		ND	0.36	0.13	0.698	3/13/24 17:37		CMR
Bromomethane	ND	0.035	0.030		ND	0.14	0.12	0.698	3/13/24 17:37		CMR
1,3-Butadiene	ND	0.035	0.029		ND	0.077	0.065	0.698	3/13/24 17:37		CMR
2-Butanone (MEK)	ND	1.4	0.68		ND	4.1	2.0	0.698	3/13/24 17:37		CMR
Carbon Disulfide	ND	0.35	0.067		ND	1.1	0.21	0.698	3/13/24 17:37		CMR
Carbon Tetrachloride	ND	0.035	0.027		ND	0.22	0.17	0.698	3/13/24 17:37		CMR
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.053	0.698	3/13/24 17:37		CMR
Chloroethane	ND	0.035	0.032		ND	0.092	0.084	0.698	3/13/24 17:37		CMR
Chloroform	0.023	0.035	0.017	J	0.11	0.17	0.083	0.698	3/13/24 17:37		CMR
Chloromethane	0.56	0.070	0.047		1.2	0.14	0.096	0.698	3/13/24 17:37		CMR
Cyclohexane	0.60	0.070	0.027		2.1	0.24	0.093	0.698	3/13/24 17:37		CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.20	0.698	3/13/24 17:37		CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.022		ND	0.27	0.17	0.698	3/13/24 17:37		CMR
1,2-Dichlorobenzene	ND	0.035	0.012		ND	0.21	0.073	0.698	3/13/24 17:37		CMR
1,3-Dichlorobenzene	ND	0.035	0.013		ND	0.21	0.078	0.698	3/13/24 17:37		CMR
1,4-Dichlorobenzene	ND	0.035	0.017		ND	0.21	0.10	0.698	3/13/24 17:37		CMR
Dichlorodifluoromethane (Freon 12)	0.53	0.035	0.015		2.6	0.17	0.072	0.698	3/13/24 17:37		CMR
1,1-Dichloroethane	ND	0.035	0.017		ND	0.14	0.069	0.698	3/13/24 17:37		CMR
1,2-Dichloroethane	ND	0.035	0.013		ND	0.14	0.053	0.698	3/13/24 17:37		CMR
1,1-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.097	0.698	3/13/24 17:37		CMR
cis-1,2-Dichloroethylene	ND	0.035	0.017		ND	0.14	0.067	0.698	3/13/24 17:37		CMR
trans-1,2-Dichloroethylene	ND	0.035	0.016		ND	0.14	0.065	0.698	3/13/24 17:37		CMR
1,2-Dichloropropane	ND	0.035	0.026		ND	0.16	0.12	0.698	3/13/24 17:37		CMR
cis-1,3-Dichloropropene	ND	0.035	0.018		ND	0.16	0.080	0.698	3/13/24 17:37		CMR
trans-1,3-Dichloropropene	ND	0.035	0.034		ND	0.16	0.15	0.698	3/13/24 17:37		CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	0.017	0.035	0.014	J	0.12	0.24	0.098	0.698	3/13/24 17:37		CMR
1,4-Dioxane	ND	0.35	0.17		ND	1.3	0.62	0.698	3/13/24 17:37		CMR
Ethanol	51	1.4	0.93	E	96	2.6	1.7	0.698	3/13/24 17:37		CMR
Ethyl Acetate	ND	0.35	0.14		ND	1.3	0.49	0.698	3/13/24 17:37		CMR
Ethylbenzene	0.91	0.035	0.012		3.9	0.15	0.052	0.698	3/13/24 17:37		CMR
4-Ethyltoluene	0.82	0.035	0.015		4.1	0.17	0.075	0.698	3/13/24 17:37		CMR
Heptane	1.6	0.035	0.022		6.7	0.14	0.090	0.698	3/13/24 17:37		CMR
Hexachlorobutadiene	ND	0.035	0.020		ND	0.37	0.21	0.698	3/13/24 17:37		CMR
Hexane	1.7	1.4	0.73		5.8	4.9	2.6	0.698	3/13/24 17:37		CMR
2-Hexanone (MBK)	ND	0.035	0.015		ND	0.14	0.062	0.698	3/13/24 17:37		CMR
Isopropanol	ND	1.4	0.73		ND	3.4	1.8	0.698	3/13/24 17:37		CMR
Methyl tert-Butyl Ether (MTBE)	0.036	0.035	0.017		0.13	0.13	0.062	0.698	3/13/24 17:37		CMR
Methylene Chloride	0.14	0.35	0.094	J	0.47	1.2	0.33	0.698	3/13/24 17:37		CMR
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.018		ND	0.14	0.076	0.698	3/13/24 17:37		CMR
Naphthalene	0.059	0.035	0.028		0.31	0.18	0.15	0.698	3/13/24 17:37		CMR
Propene	2.6	1.4	0.77		4.5	2.4	1.3	0.698	3/13/24 17:37		CMR
Styrene	0.084	0.035	0.027		0.36	0.15	0.12	0.698	3/13/24 17:37		CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.0086		ND	0.24	0.059	0.698	3/13/24 17:37		CMR

ANALYTICAL RESULTS

Project Location:
 Date Received: 3/1/2024
Field Sample #: Locker Room Indoor-1
Sample ID: 24C0193-11
 Sample Matrix: Air
 Sampled: 2/29/2024 16:30

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P0958
 Canister Size: 6 liter
 Flow Controller ID: FC1378
 Sample Type: 8 hr

Work Order: 24C0193
 Initial Vacuum(in Hg): -30+
 Final Vacuum(in Hg): -8
 Receipt Vacuum(in Hg): -6.6
 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	
	Results	RL	MDL		Results	RL	MDL		Analyzed	Analyst
Tetrachloroethylene	0.036	0.035	0.030		0.25	0.24	0.20	0.698	3/13/24 17:37	CMR
Tetrahydrofuran	ND	0.35	0.13		ND	1.0	0.39	0.698	3/13/24 17:37	CMR
Toluene	4.3	0.035	0.017		16	0.13	0.066	0.698	3/13/24 17:37	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.019		ND	0.26	0.14	0.698	3/13/24 17:37	CMR
1,1,1-Trichloroethane	0.013	0.035	0.011	J	0.072	0.19	0.059	0.698	3/13/24 17:37	CMR
1,1,2-Trichloroethane	ND	0.035	0.012		ND	0.19	0.066	0.698	3/13/24 17:37	CMR
Trichloroethylene	ND	0.035	0.027		ND	0.19	0.14	0.698	3/13/24 17:37	CMR
Trichlorofluoromethane (Freon 11)	0.25	0.14	0.014		1.4	0.78	0.080	0.698	3/13/24 17:37	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.0095	J	0.46	1.1	0.073	0.698	3/13/24 17:37	CMR
1,2,4-Trimethylbenzene	0.84	0.035	0.021		4.1	0.17	0.10	0.698	3/13/24 17:37	CMR
1,3,5-Trimethylbenzene	0.26	0.035	0.027		1.3	0.17	0.13	0.698	3/13/24 17:37	CMR
Vinyl Acetate	1.8	0.70	0.14		6.2	2.5	0.50	0.698	3/13/24 17:37	CMR
Vinyl Chloride	ND	0.035	0.018		ND	0.089	0.045	0.698	3/13/24 17:37	CMR
m&p-Xylene	3.2	0.070	0.024		14	0.30	0.11	0.698	3/13/24 17:37	CMR
o-Xylene	1.3	0.035	0.013		5.5	0.15	0.055	0.698	3/13/24 17:37	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	101	70-130	3/13/24 17:37

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
24C0193-01 [Outdoor SSV-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-02 [Outdoor Ambient-1]	B368423	1.5	1	N/A	1000	200	430	03/13/24
24C0193-03 [Office SS-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-04 [Office Indoor-1]	B368423	1.74	1	N/A	1000	200	430	03/13/24
24C0193-05 [Bathroom SS-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-06 [Bathroom Indoor-1]	B368423	2	1	N/A	1000	200	500	03/13/24
24C0193-07 [Duplicate-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-08 [Drivers Bathroom SS-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-09 [Drivers Bathroom Indoor-1]	B368423	1.5	1	N/A	1000	200	430	03/13/24
24C0193-10 [Locker Room SS-1]	B368423	1.5	1	N/A	1000	200	150	03/13/24
24C0193-11 [Locker Room Indoor-1]	B368423	1.5	1	N/A	1000	200	430	03/13/24

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 B368423 - TO-15 Prep
Blank (B368423-BLK1)

Prepared & Analyzed: 03/13/24

Acetone	ND	1.4
Benzene	ND	0.034
Benzyl chloride	ND	0.034
Bromodichloromethane	ND	0.034
Bromoform	ND	0.034
Bromomethane	ND	0.034
1,3-Butadiene	ND	0.034
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.34
Carbon Tetrachloride	ND	0.034
Chlorobenzene	ND	0.034
Chloroethane	ND	0.034
Chloroform	ND	0.034
Chloromethane	ND	0.069
Cyclohexane	ND	0.069
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
Ethyl Acetate	ND	0.34
Ethylbenzene	ND	0.034
4-Ethyltoluene	ND	0.034
Heptane	ND	0.034
Hexachlorobutadiene	ND	0.034
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.034
Isopropanol	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
Propene	ND	1.4
Styrene	ND	0.034

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 B368423 - TO-15 Prep
Blank (B368423-BLK1)

Prepared & Analyzed: 03/13/24

1,1,2,2-Tetrachloroethane	ND	0.034
Tetrachloroethylene	ND	0.034
Tetrahydrofuran	ND	0.34
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
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
Vinyl Acetate	ND	0.69
Vinyl Chloride	ND	0.034
m&p-Xylene	ND	0.069
o-Xylene	ND	0.034

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>7.70</i>	<i>8.00</i>	<i>96.3</i>	<i>70-130</i>
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LCS (B368423-BS1)

Prepared & Analyzed: 03/13/24

Acetone	5.06	5.00	101	70-130
Benzene	4.96	5.00	99.2	70-130
Benzyl chloride	5.12	5.00	102	70-130
Bromodichloromethane	5.34	5.00	107	70-130
Bromoform	5.87	5.00	117	70-130
Bromomethane	4.62	5.00	92.4	70-130
1,3-Butadiene	5.38	5.00	108	70-130
2-Butanone (MEK)	4.05	5.00	81.1	70-130
Carbon Disulfide	4.73	5.00	94.5	70-130
Carbon Tetrachloride	5.90	5.00	118	70-130
Chlorobenzene	5.01	5.00	100	70-130
Chloroethane	4.70	5.00	94.1	70-130
Chloroform	4.89	5.00	97.8	70-130
Chloromethane	4.94	5.00	98.8	70-130
Cyclohexane	4.95	5.00	98.9	70-130
Dibromochloromethane	5.65	5.00	113	70-130
1,2-Dibromoethane (EDB)	5.13	5.00	103	70-130
1,2-Dichlorobenzene	5.40	5.00	108	70-130
1,3-Dichlorobenzene	5.02	5.00	100	70-130
1,4-Dichlorobenzene	5.49	5.00	110	70-130
Dichlorodifluoromethane (Freon 12)	5.10	5.00	102	70-130
1,1-Dichloroethane	4.98	5.00	99.5	70-130
1,2-Dichloroethane	5.07	5.00	101	70-130
1,1-Dichloroethylene	5.15	5.00	103	70-130
cis-1,2-Dichloroethylene	4.93	5.00	98.6	70-130
trans-1,2-Dichloroethylene	4.89	5.00	97.8	70-130
1,2-Dichloropropane	5.10	5.00	102	70-130

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B368423 - TO-15 Prep											
LCS (B368423-BS1)					Prepared & Analyzed: 03/13/24						
cis-1,3-Dichloropropene	4.86				5.00		97.1	70-130			
trans-1,3-Dichloropropene	5.56				5.00		111	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	4.71				5.00		94.3	70-130			
1,4-Dioxane	5.33				5.00		107	70-130			
Ethanol	6.00				5.00		120	70-130			
Ethyl Acetate	3.69				5.00		73.8	70-130			
Ethylbenzene	4.94				5.00		98.8	70-130			
4-Ethyltoluene	5.20				5.00		104	70-130			
Heptane	5.61				5.00		112	70-130			
Hexachlorobutadiene	5.08				5.00		102	70-130			
Hexane	4.81				5.00		96.3	70-130			
2-Hexanone (MBK)	5.15				5.00		103	70-130			
Isopropanol	5.28				5.00		106	70-130			
Methyl tert-Butyl Ether (MTBE)	4.54				5.00		90.8	70-130			
Methylene Chloride	4.82				5.00		96.4	70-130			
4-Methyl-2-pentanone (MIBK)	5.40				5.00		108	70-130			
Naphthalene	4.87				5.00		97.4	70-130			
Propene	4.66				5.00		93.2	70-130			
Styrene	5.25				5.00		105	70-130			
1,1,2,2-Tetrachloroethane	5.07				5.00		101	70-130			
Tetrachloroethylene	5.05				5.00		101	70-130			
Tetrahydrofuran	4.72				5.00		94.5	70-130			
Toluene	5.02				5.00		100	70-130			
1,2,4-Trichlorobenzene	5.22				5.00		104	70-130			
1,1,1-Trichloroethane	5.17				5.00		103	70-130			
1,1,2-Trichloroethane	5.23				5.00		105	70-130			
Trichloroethylene	5.23				5.00		105	70-130			
Trichlorofluoromethane (Freon 11)	5.39				5.00		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.02				5.00		100	70-130			
1,2,4-Trimethylbenzene	4.98				5.00		99.6	70-130			
1,3,5-Trimethylbenzene	5.43				5.00		109	70-130			
Vinyl Acetate	3.66				5.00		73.3	70-130			
Vinyl Chloride	4.90				5.00		97.9	70-130			
m&p-Xylene	10.5				10.0		105	70-130			
o-Xylene	5.19				5.00		104	70-130			
Surrogate: 4-Bromofluorobenzene (1)	7.85				8.00		98.1	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 B368423 - TO-15 Prep

Duplicate (B368423-DUP1)		Source: 24C0193-01				Prepared & Analyzed: 03/13/24					
Acetone	ND	4.0	ND	9.5		ND				25	
Benzene	ND	0.10	ND	0.32		ND				25	
Benzyl chloride	ND	0.10	ND	0.52		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	
1,3-Butadiene	ND	0.10	ND	0.22		ND				25	
2-Butanone (MEK)	ND	4.0	ND	12		ND				25	
Carbon Disulfide	ND	1.0	ND	3.1		ND				25	
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	0.064	0.10	0.31	0.49		0.062			3.17	25	J
Chloromethane	ND	0.20	ND	0.41		ND				25	
Cyclohexane	ND	0.20	ND	0.69		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	ND	0.10	ND	0.60		ND				25	
Dichlorodifluoromethane (Freon 12)	0.50	0.10	2.5	0.49		0.47			5.34	25	
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	ND	4.0	ND	7.5		ND				25	
Ethyl Acetate	ND	1.0	ND	3.6		ND				25	
Ethylbenzene	ND	0.10	ND	0.43		ND				25	
4-Ethyltoluene	ND	0.10	ND	0.49		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	
2-Hexanone (MBK)	ND	0.10	ND	0.41		ND				25	
Isopropanol	ND	4.0	ND	9.8		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)	ND	0.10	ND	0.41		ND				25	
Naphthalene	ND	0.10	ND	0.52		ND				25	
Propene	ND	4.0	ND	6.9		ND				25	
Styrene	ND	0.10	ND	0.43		ND				25	

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B368423 - TO-15 Prep											
Duplicate (B368423-DUP1)	Source: 24C0193-01				Prepared & Analyzed: 03/13/24						
1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.69		ND				25	
Tetrachloroethylene	1.8	0.10	12	0.68		1.8			0.568	25	
Tetrahydrofuran	ND	1.0	ND	2.9		ND				25	
Toluene	ND	0.10	ND	0.38		0.054				25	
1,2,4-Trichlorobenzene	ND	0.10	ND	0.74		ND				25	
1,1,1-Trichloroethane	ND	0.10	ND	0.55		0.036				25	
1,1,2-Trichloroethane	ND	0.10	ND	0.55		ND				25	
Trichloroethylene	0.21	0.10	1.1	0.54		0.28			26.9	25	R-04, J
Trichlorofluoromethane (Freon 11)	0.20	0.40	1.1	2.2		0.30			37.8	25	R-04, J
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.068	0.40	0.52	3.1		0.060			12.5	25	J
1,2,4-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
1,3,5-Trimethylbenzene	ND	0.10	ND	0.49		ND				25	
Vinyl Acetate	ND	2.0	ND	7.0		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)	7.80				8.00		97.5	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.
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-04	Duplicate relative percent difference (RPD) is outside of control limits. RPD is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

ANALYST

STATION Report Queue Station
 KAM Kyle A. Murray
 KMC Kristen M Couture
 CMR Catherine M. Rouleau

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 (S101394-ICV1)			Lab File ID: K24A037019.D			Analyzed: 02/07/24 00:09			
Bromochloromethane (1)	142760	2.896	140493	2.896	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	402711	3.527	389910	3.52	103	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (1)	376563	5.142	366115	5.142	103	60 - 140	0.0000	+/-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 (S101638-CCV1)			Lab File ID: K24A073003.D			Analyzed: 03/13/24 10:45			
Bromochloromethane (1)	113850	2.895	140493	2.896	81	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	278657	3.526	389910	3.52	71	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	257498	5.142	366115	5.142	70	60 - 140	0.0000	+/-0.50	
LCS (B368423-BS1)			Lab File ID: K24A073004.D			Analyzed: 03/13/24 11:13			
Bromochloromethane (1)	111359	2.896	113850	2.895	98	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	282211	3.527	278657	3.526	101	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	264226	5.142	257498	5.142	103	60 - 140	0.0000	+/-0.50	
Blank (B368423-BLK1)			Lab File ID: K24A073007.D			Analyzed: 03/13/24 12:47			
Bromochloromethane (1)	109046	2.896	113850	2.895	96	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	273535	3.527	278657	3.526	98	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	252345	5.142	257498	5.142	98	60 - 140	0.0000	+/-0.50	
Outdoor Ambient-1 (24C0193-02)			Lab File ID: K24A073010.D			Analyzed: 03/13/24 15:17			
Bromochloromethane (1)	108323	2.896	113850	2.895	95	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (1)	269611	3.528	278657	3.526	97	60 - 140	0.0020	+/-0.50	
Chlorobenzene-d5 (1)	252585	5.142	257498	5.142	98	60 - 140	0.0000	+/-0.50	
Office Indoor-1 (24C0193-04)			Lab File ID: K24A073011.D			Analyzed: 03/13/24 15:52			
Bromochloromethane (1)	105579	2.903	113850	2.895	93	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	266743	3.527	278657	3.526	96	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	251884	5.142	257498	5.142	98	60 - 140	0.0000	+/-0.50	
Bathroom Indoor-1 (24C0193-06)			Lab File ID: K24A073012.D			Analyzed: 03/13/24 16:28			
Bromochloromethane (1)	107617	2.903	113850	2.895	95	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	268196	3.527	278657	3.526	96	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	254373	5.142	257498	5.142	99	60 - 140	0.0000	+/-0.50	
Drivers Bathroom Indoor-1 (24C0193-09)			Lab File ID: K24A073013.D			Analyzed: 03/13/24 17:02			
Bromochloromethane (1)	105729	2.904	113850	2.895	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	266853	3.527	278657	3.526	96	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	259017	5.142	257498	5.142	101	60 - 140	0.0000	+/-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
Locker Room Indoor-1 (24C0193-11)									
Lab File ID: K24A073014.D					Analyzed: 03/13/24 17:37				
Bromochloromethane (1)	106215	2.904	113850	2.895	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	267036	3.528	278657	3.526	96	60 - 140	0.0020	+/-0.50	
Chlorobenzene-d5 (1)	250228	5.142	257498	5.142	97	60 - 140	0.0000	+/-0.50	
Outdoor SSV-1 (24C0193-01)									
Lab File ID: K24A073015.D					Analyzed: 03/13/24 18:07				
Bromochloromethane (1)	108024	2.904	113850	2.895	95	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	273505	3.535	278657	3.526	98	60 - 140	0.0090	+/-0.50	
Chlorobenzene-d5 (1)	257800	5.15	257498	5.142	100	60 - 140	0.0080	+/-0.50	
Duplicate (B368423-DUP1)									
Lab File ID: K24A073016.D					Analyzed: 03/13/24 18:36				
Bromochloromethane (1)	111556	2.903	113850	2.895	98	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	271076	3.527	278657	3.526	97	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	254043	5.142	257498	5.142	99	60 - 140	0.0000	+/-0.50	
Office SS-1 (24C0193-03)									
Lab File ID: K24A073017.D					Analyzed: 03/13/24 19:06				
Bromochloromethane (1)	106405	2.904	113850	2.895	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	271794	3.535	278657	3.526	98	60 - 140	0.0090	+/-0.50	
Chlorobenzene-d5 (1)	255835	5.142	257498	5.142	99	60 - 140	0.0000	+/-0.50	
Bathroom SS-1 (24C0193-05)									
Lab File ID: K24A073018.D					Analyzed: 03/13/24 19:35				
Bromochloromethane (1)	106757	2.904	113850	2.895	94	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	257967	3.527	278657	3.526	93	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	252224	5.143	257498	5.142	98	60 - 140	0.0010	+/-0.50	
Duplicate-1 (24C0193-07)									
Lab File ID: K24A073019.D					Analyzed: 03/13/24 20:04				
Bromochloromethane (1)	105757	2.904	113850	2.895	93	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	258530	3.528	278657	3.526	93	60 - 140	0.0020	+/-0.50	
Chlorobenzene-d5 (1)	242927	5.142	257498	5.142	94	60 - 140	0.0000	+/-0.50	
Drivers Bathroom SS-1 (24C0193-08)									
Lab File ID: K24A073020.D					Analyzed: 03/13/24 20:34				
Bromochloromethane (1)	108336	2.904	113850	2.895	95	60 - 140	0.0090	+/-0.50	
1,4-Difluorobenzene (1)	265217	3.527	278657	3.526	95	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	253736	5.143	257498	5.142	99	60 - 140	0.0010	+/-0.50	
Locker Room SS-1 (24C0193-10)									
Lab File ID: K24A073021.D					Analyzed: 03/13/24 21:03				
Bromochloromethane (1)	105444	2.903	113850	2.895	93	60 - 140	0.0080	+/-0.50	
1,4-Difluorobenzene (1)	252576	3.527	278657	3.526	91	60 - 140	0.0010	+/-0.50	
Chlorobenzene-d5 (1)	241063	5.142	257498	5.142	94	60 - 140	0.0000	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S101638-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.04	0.9903157	0.9974106		0.7	30
Benzene	A	5.00	5.40	0.5804471	0.6267548		8.0	30
Benzyl chloride	A	5.00	5.22	0.8012401	0.8370644		4.5	30
Bromodichloromethane	A	5.00	5.79	0.6035284	0.6988951		15.8	30
Bromoform	A	5.00	6.07	0.6206791	0.7540253		21.5	30
Bromomethane	A	5.00	4.74	0.6013432	0.5702521		-5.2	30
1,3-Butadiene	A	5.00	5.49	0.5114432	0.4764163		9.8	30
2-Butanone (MEK)	A	5.00	4.20	1.19898	1.005857		-16.1	30
Carbon Disulfide	A	5.00	4.78	1.547095	1.477411		-4.5	30
Carbon Tetrachloride	A	5.00	6.33	0.7460805	0.9443007		26.6	30
Chlorobenzene	A	5.00	5.48	0.722567	0.7918601		9.6	30
Chloroethane	A	5.00	5.07	0.3176996	0.3218972		1.3	30
Chloroform	A	5.00	5.00	1.566853	1.565161		-0.1	30
Chloromethane	A	5.00	5.06	0.5148629	0.5210365		1.2	30
Cyclohexane	A	5.00	5.31	0.2460699	0.2613679		6.2	30
Dibromochloromethane	A	5.00	6.09	0.6660755	0.8113647		21.8	30
1,2-Dibromoethane (EDB)	A	5.00	5.60	0.4925855	0.5518148		12.0	30
1,2-Dichlorobenzene	A	5.00	5.50	0.701028	0.7705163		9.9	30
1,3-Dichlorobenzene	A	5.00	5.92	0.7869725	0.9322201		18.5	30
1,4-Dichlorobenzene	A	5.00	5.10	0.7136596	0.7280709		2.0	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.23	2.244554	2.346203		4.5	30
1,1-Dichloroethane	A	5.00	5.04	1.19761	1.207498		0.8	30
1,2-Dichloroethane	A	5.00	5.35	1.327611	1.419355		6.9	30
1,1-Dichloroethylene	A	5.00	5.16	1.286309	1.326616		3.1	30
cis-1,2-Dichloroethylene	A	5.00	4.91	1.000014	0.9814317		-1.9	30
trans-1,2-Dichloroethylene	A	5.00	5.04	1.057115	1.066709		0.9	30
1,2-Dichloropropane	A	5.00	5.28	0.2447565	0.2584683		5.6	30
cis-1,3-Dichloropropene	A	5.00	5.61	0.3924667	0.440289		12.2	30
trans-1,3-Dichloropropene	A	5.00	5.57	0.351687	0.3919658		11.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.11	1.740306	1.777764		2.2	30
1,4-Dioxane	A	5.00	5.23	0.1242478	0.1298858		4.5	30
Ethanol	A	5.00	5.56	0.1165185	0.1295881		11.2	30
Ethyl Acetate	A	5.00	3.84	0.2207404	0.1693035		-23.3	30
Ethylbenzene	A	5.00	5.57	1.165605	1.29844		11.4	30
4-Ethyltoluene	A	5.00	5.44	1.273496	1.384797		8.7	30
Heptane	A	5.00	5.84	0.2184138	0.2551897		16.8	30
Hexachlorobutadiene	A	5.00	5.24	0.6781653	0.7105049		4.8	30
Hexane	A	5.00	4.60	0.7870748	0.7247571		-7.9	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S101638-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	5.32	0.4891791	0.5204794		6.4	30
Isopropanol	A	5.00	5.26	1.238257	1.303694		5.3	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.57	1.903147	1.739355		-8.6	30
Methylene Chloride	A	5.00	5.05	0.7793922	0.7870145		1.0	30
4-Methyl-2-pentanone (MIBK)	A	5.00	5.90	0.1920707	0.2265552		18.0	30
Naphthalene	A	5.00	4.39	1.104655	0.9691291		-12.3	30
Propene	A	5.00	4.65	0.4630514	0.4308968		-6.9	30
Styrene	A	5.00	5.86	0.6227226	0.7291769		17.1	30
1,1,2,2-Tetrachloroethane	A	5.00	5.52	0.5543625	0.6116086		10.3	30
Tetrachloroethylene	A	5.00	5.50	0.4887859	0.5381696		10.1	30
Tetrahydrofuran	A	5.00	4.30	0.565722	0.4869565		-13.9	30
Toluene	A	5.00	5.40	0.8231446	0.889756		8.1	30
1,2,4-Trichlorobenzene	A	5.00	4.68	0.5170549	0.4836325		-6.5	30
1,1,1-Trichloroethane	A	5.00	5.69	0.6844746	0.7784768		13.7	30
1,1,2-Trichloroethane	A	5.00	5.60	0.2871772	0.3217734		12.0	30
Trichloroethylene	A	5.00	5.32	0.3312558	0.3526055		6.4	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.51	2.489956	2.742331		10.1	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.12	1.440591	1.476258		2.5	30
1,2,4-Trimethylbenzene	A	5.00	5.36	1.180733	1.265501		7.2	30
1,3,5-Trimethylbenzene	A	5.00	5.87	1.164934	1.368672		17.5	30
Vinyl Acetate	A	5.00	4.35	1.245417	1.083756		-13.0	30
Vinyl Chloride	A	5.00	4.91	0.6172534	0.6055968		-1.9	30
m&p-Xylene	A	10.0	11.5	0.9911532	1.139302		14.9	30
o-Xylene	A	5.00	5.80	0.9697068	1.12434		15.9	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>	
Acetone	NY,ME,NH
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
1,3-Butadiene	NJ,NY,ME,NH,VA
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
Carbon Disulfide	NJ,NY,ME,NH,VA
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
Isopropanol	NY,ME,NH
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
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
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
Vinyl Acetate	FL,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	04/1/2024
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

Canister Samples Chain of Custody Record

2400193

Client Contact Information		GES Project Manager: Robert N. Sickler				1 of 1 COCs										
Company: Buckeye Partners		Phone: 800-220-3069, x4052														
Address: 625 Elk Street		Site Contact: Brandon Mikolin (GES)														
City/State/Zip Buffalo, NY 14210		Pace Contact: Justin Horn														
Phone: (716) 851-3982		Lab is Direct Bill to Buckeye Partners, LLC														
FAX:																
Project Name: Buckeye Buffalo Terminal		Analysis Turnaround Time														
Site/location:		Standard (Specify) 10-day														
GES Project # 0901876-0400-0406-1109		Rush (Specify)														
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15					Other (Please specify in notes section)	Sample Type	Other (Please specify in notes section)	Sample Specific Notes:
01 Outdoor SSV-1	2/29/24	0715	1535	-30	-4	FC2021	3459	x								-1.3
02 Outdoor Ambient -1		0715	1540	-30	-10	FC2088	2063	x								-8.8
03 Office SS -1		0735	1555	-30	-9	FC0044	2110	x								-10.0
04 Office Indoor -1		0735	1555	-30	-12	FC2146	1118	x								-11.9
05 Bathroom SS -1		0755	1330	-30	-4	5078	0531	x								-4.3
06 Bathroom Indoor -1		0805	1605	-28	-13	3642	1247	x								-10.7
07 Duplicate -1		0755	1330	-30	-4	5078	2713	x								-4.3
08 Drivers Bathroom SS-1		0820	1625	-30	-10	FC2041	2075	x								-8.1
09 Drivers Bathroom Indoor -1		0820	1620	-30	-8	FC2039	0127	x								-6.7
10 Locker Room SS-1		0830	1630	-30	-7	FC0834	3404	x								-9.5
11 Locker Room Indoor -1		0830	1630	-30	-8	FC1378	0958	x								-6.6
Sampled by: Brandon Mikolin / GES		Temperature (Fahrenheit)														
		Interior		Ambient												
		Start														
		Stop														
		Pressure (Inches of Hg)														
		Interior		Ambient												
		Start														
		Stop														
Special Instructions/QC Requirements & Comments: Category B Deliverable																
Canisters Shipped by:		Date/Time:		Canisters Received by:												
Samples Relinquished by: B. Mikolin to Alpha Labs		Date/Time: 2/29/24 1700		Received by: C. Chappley 2/29/24 1700												
Relinquished by:		Date/Time:		Received by: W. L. L. 3/1/24 0800												

Lab Use Only

Shipper Name:

Opened by:

Condition:

	DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client Buckeye Partners
 Project Buckeye Buffalo Terminal
 MCP/RCP Required _____
 Deliverable Package Requirement Cat B
 Location _____
 PWSID# (When Applicable) _____
 Arrival Method Courier
 Received By / Date / Time KMC 3/1/24 0800
 Back-Sheet By / Date / Time KMC 3/14/24 0905
 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	☒ (11)	☐
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	11	6L	10	8hr	Nut/Ferrule	9	IC Train
Tedlar Bags					Tubing	45ft	
TO-17 Tubes					T-Connector	1	Shipping Charges
Radiello					Syringe		
Pufs/ TO-11					Tedlar		

Can #'s	5	P0531	10	P3404	15		Regs #'s	5	5078	10	FC0384	15	
1	P3459	6	1247	11	P0958	16	1	FC2021	6	3642	11	FC1378	16
2	2063	7	P2713	12		17	2	FC2088	7	5078	12		17
3	P2110	8	2075	13		18	3	FC0644	8	FC2041	13		18
4	P1188	9	P0127	14		19	4	FC2146	9	FC2039	14		19
Unused Media	4		9		14		Pufs/TO-17's	5		10		15	
1		5		10		15	1		6		11		16
2		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: 1/25/2024 Batch #: L24A025010.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP3459

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/24/2024 Batch #: L24A023033.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2063

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/25/2024 Batch #: L24A025011.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP2110

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/24/2024 Batch #: L24A023034.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP1188

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/25/2024 Batch #: L24A025013.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP0531

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 2/14/2024 Batch #: L24A045010.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC1247

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/25/2024 Batch #: L24A025009.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP2713

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/24/2024 Batch #: L24A023029.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2075

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/25/2024 Batch #: L24A025014.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP0127

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/24/2024 Batch #: L24A023036.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP3404

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: CMR 3/15/24



Air Sampling Media Certificate of Analysis

Date Analyzed: 1/25/2024 Batch #: L24A025012.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP0958

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: CMR 3/15/24



Attachment D – Data Usability Summary Report

Buckeye Partners, LP

Data Validation Report

Buckeye Buffalo Terminal
625 Elk Street
Buffalo, NY 14210

April 18, 2024

Version 1



*Data Validation Report
Buckeye Buffalo Terminal
625 Elk Street
Buffalo, NY 14210*

Data Validation Report

Buckeye Buffalo Terminal

Prepared for:
Buckeye Partners, LP
625 Elk Street
Buffalo, NY 14210

Prepared by:
Groundwater & Environmental Services, Inc.

701 N Main St., Suite 201

Blacksburg, VA 24060

TEL: 800-220-3068

www.gesonline.com

GES Project:
0901876

Date:
April 18, 2024

Table of Contents

1	Introduction	1
2	Data Validation Qualifiers	1
3	Sample Receipt.....	1
3.1	Pre-Sampling Canister Preparation	1
3.2	COC and Field Documentation	3
3.3	Pre-sampling and Sample Receipt Criteria	4
4	Validation Criteria.....	4
4.1	Initial Calibration and Continuing Calibration Criteria.....	4
4.1.1	Relative Response Factors (RRF)	4
4.1.2	Percent Relative Standard Deviation (%RSD)	4
4.1.3	Percent Difference (%D)	4
4.2	Evaluating Instrument Performance Check Results.....	5
4.3	Evaluating Internal Standard Results	5
4.4	Method Blank Samples	5
4.5	Laboratory Accuracy	5
4.5.1	TO-15 LCS	6
4.5.2	TO-15 Surrogate Compound.....	6
4.6	Precision, Measured by Relative Percent Differences (RPDs)	6
4.7	Data Package Completeness.....	7

Tables

Table 2-1 - Data Validation Qualifiers

Table 3-1: Summa Canister Leak Evaluation

Table 3-2: Sample Extraction Data

Table 4-1: Bromofluorobenzene Tuning Criteria

Table 4-2: Field Duplicate Precision

1 Introduction

Groundwater & Environmental Services, Inc., (GES) is pleased to submit this data validation report regarding the sampling event conducted at the Buckeye Buffalo Terminal (site) in February of 2024. Ten (10) air samples were collected in 6-Liter Summa Canisters. The samples were sent to Con-Test Laboratory (Con-Test) located in East Longmeadow, MA. The samples were analyzed for Volatile Organic Compounds (VOCs) via United States Environmental Protection Agency (EPA) Method TO-15 using Gas Chromatography/Mass Spectrometry (GC/MS) in the Selected Ion Monitoring (SIM) Mode.

The analytical results were validated using laboratory acceptance criteria, procedures and guidelines contained in the following documents: The United States EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (USEPA, November, 2020). Also referenced for procedures were the Hazardous Waste Support Section EPA Method TO-15 data validation checklist (USEPA, 2016). Items reviewed were sample dilutions, initial and continuing calibration, instrument performance checks, internal standards, system monitoring compounds, method blanks and equipment blanks, and duplicate analyses. Results were qualified as estimated detected ("J"), estimated high ("J+"), estimated low ("J-"), estimated non-detected ("UJ"), non-detect ("U"), or rejected/unusable ("R"), based on the guidelines referenced above.

The following sections outline the criteria which were evaluated for data validity.

2 Data Validation Qualifiers

Data validation qualifiers were assigned to various analytes due to compliance issues. **Table 2-1** lists the analytes, qualifiers, and validation rationale.

Table 2-1 - Data Validation Qualifiers

Sample ID	Analytes	Reported Amount µg/m ³	Qualifier	Compliance Issue
Bathroom SS-1 / Duplicate	2-Hexanone	0.93/0.52	J	RPD > 30%
Outdoor SSV-1	All analytes	Various	J-: detects UJ: non-detects	Possible leakage

3 Sample Receipt

3.1 Pre-Sampling Canister Preparation

All canisters used in the sampling were demonstrated by the laboratory to be clean prior to sample collection. Canister leakage was evaluated by comparing field pressure readings versus

laboratory receipt pressure. The difference between the field pressure and laboratory receipt pressure fell within acceptable variance with exceptions noted in the table below. The pressure leakage is noted by an increase in pressure at laboratory receipt for sample Outdoor SSV-1, indicating a possible leakage during transportation. The reported values, both detections and non-detections, may be biased low due to a dilution by ambient air.

For sample Locker Room SS-1 where the Relative Percent Difference (RPD) between pressures was outside acceptable limits, the receipt pressure was lower than the pressure measured in the field; therefore, the difference in pressures do not indicate summa canister leakage. The pressure discrepancy rather indicates that the pressure was likely read or reported incorrectly in the field, as canister leakage does not result in lower pressure at laboratory receipt. As the pressure difference did not indicate summa canister leakage between field and sample receipt, there were no issues with the data due to pressure integrity.

Table 3-1: Summa Canister Leak Evaluation

Sample Name	SDG	Canister	Flow Controller	Field Vac./Pres	Receipt Vac./Pres.	RPD <30%
Outdoor SSV-1	24C0193-01	P3459	FC2021	-4	-1.3	101.9
Outdoor Ambient-1	24C0193-02	2063	FC2088	-10	-8.8	12.8
Office SS-1	24C0193-03	P2110	FC0044	-9	-10	10.5
Office Indoor-1	24C0193-04	P1188	FC2146	-12	-11.9	0.8
Bathroom SS-1	24C0193-05	P0531	5078	-4	-4.3	7.2
Bathroom Indoor-1	24C0193-06	1247	3642	-13	-16.7	24.9
Duplicate-1	24C0193-07	P2713	5078	-4	-4.3	7.2
Drivers Bathroom SS-1	24C0193-08	2075	FC2041	-10	-8.1	21.0
Drivers Bathroom Indoor-1	24C0193-09	P0127	FC2039	-8	-6.7	17.7
Locker Room SS-1	24C0193-10	P3404	FC0384	-7	-9.5	30.3

As most samples arrived at the laboratory with a negative pressure differential, the laboratory used dilution gas to reach a final 5 pounds per square inch (psi) pressure for analysis. To correct for the dilution, the laboratory injected different volumes of gas to reach the acceptable reporting limits. The dilution calculations and injection volumes are noted in the table below.

Table 3-2: Sample Extraction Data

Sample Name	SDG	Pressure Dilution	Pre-Dilution	Pre-Dil initial mL	Pre-Dil final mL	Default injection mL	Actual injection mL	Date
Outdoor SSV-1	24C0193-01	1.5	1	N/A	1000	200	150	3/13/24
Outdoor Ambient-1	24C0193-02	1.5	1	N/A	1000	200	430	3/13/24
Office SS-1	24C0193-03	1.5	1	N/A	1000	200	150	3/13/24
Office Indoor-1	24C0193-04	1.74	1	N/A	1000	200	430	3/13/24
Bathroom SS-1	24C0193-05	1.5	1	N/A	1000	200	150	3/13/24
Bathroom Indoor-1	24C0193-06	2	1	N/A	1000	200	500	3/13/24
Duplicate-1	24C0193-07	1.5	1	N/A	1000	200	150	3/13/24
Drivers Bathroom SS-1	24C0193-08	1.5	1	N/A	1000	200	150	3/13/24
Drivers Bathroom Indoor-1	24C0193-09	1.5	1	N/A	1000	200	430	3/13/24
Locker Room SS-1	24C0193-10	1.5	1	N/A	1000	200	150	3/13/24
Locker Room Indoor-1	24C0193-11	1.5	1	N/A	1000	200	430	3/13/24

3.2 COC and Field Documentation

The COC and field documentation clearly noted the following required information:

- The Region where the samples were taken.
- The Case number.
- The complete list of samples with information on:
 - Sample locations;
 - Sample matrix;
 - Quality Control (QC) audit samples;
 - Shipping dates;
 - Laboratories involved, and;
 - Initial/final canister pressure.

The chain-of-custody (COC) documentation includes sample descriptions, date(s) of sampling, starting canister pressure, ending canister temperature and time, laboratory receipt pressure, and canister identification (ID).

Review of the COC and log-in documentation indicates that 11 samples were collected on February 29, 2024, and were shipped for delivery to the laboratory on February 29, 2024. The samples were delivered by Federal Express (the shipping courier used to deliver the samples to the laboratory) on March 1, 2024. The samples were shipped appropriately; the pressures upon receipt were acceptable for the detection limits (DL) requested as noted in **Table 3-1** and **Table 3-2**. There were no compliance issues noted at log-in.

3.3 Pre-sampling and Sample Receipt Criteria

All canisters used in the sampling were demonstrated to be clean and leak free prior to sample collection.

4 Validation Criteria

4.1 Initial Calibration and Continuing Calibration Criteria

A 14-point initial calibration for EPA Method TO-15 was run on February 6, 2024. An initial calibration verification (ICV) sample was run on the same date. Upon review of the raw data by GES, no analytes were out of compliance in the initial calibration or the ICV.

See further calibration compliance information in the following sections.

4.1.1 Relative Response Factors (RRF)

The RRF is a measure of the relative response of the instrument detector of an analyte compared to an internal or external standard. NFG limits were used to evaluate the RRF and mean RRF values in the initial calibration and in the ICV sample. According to the NFG, the RRF and mean RRF values should be equal to or greater than 0.050, with the exception of the analytes noted in Table 15 of the NFG, which require greater than 0.01. All RRF values were greater than 0.05 for the analytes reported.

4.1.2 Percent Relative Standard Deviation (%RSD)

The %RSD is assessed using the initial calibration mean RRF values as compared to the RRF values in the CCV and is a measure of precision. EPA Method TO-15 specifies that the %RSD be less than 30%. All reported analytes had an initial calibration %RSD less than 30%. Upon review of the raw data, GES personnel verified that all %RSD values for the ICV and continuing calibration verification (CCV) samples were below the method-recommended criteria.

4.1.3 Percent Difference (%D)

The %D is assessed using the continuing calibration results. Upon review of the raw data, GES personnel verified that the %D calculated between the initial calibration mean RRF and the continuing calibration RRF was below the EPA Method TO-15-recommended $\pm 30\%$.

4.2 Evaluating Instrument Performance Check Results

GC/MS instrument performance check results were reported for each 12-hour period when samples were analyzed. Abundance acceptance criteria employed by Con-Test for performance check compound Bromofluorobenzene (BFB) met the ion abundance acceptance criteria provided in Table 14 of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, revised June 2008, as presented in **Table 4-1**. Using raw GC/MS instrument performance check results provided by the laboratory, GES verified that ion abundance results were within each set of acceptance criteria.

Table 4-1: Bromofluorobenzene Tuning Criteria

Mass	Ion Abundance Criteria
50	8.0 to 40.0% of m/e 95
75	30.0 to 66.0% of m/e 95
95	Base Peak, 100% Relative Abundance
96	5.0 to 9.0% of m/e 95
173	Less than 2.0% of m/e 174
174	50.0 to 120.0% of m/e 95
175	4.0 to 9.0% of m/e 174
176	93.0 to 101.0% of m/e 174
177	5.0 to 9.0% of m/e 176

4.3 Evaluating Internal Standard Results

According to the NFGs, internal standard performance criteria are employed to ensure that GC/MS sensitivity and response are stable during each analysis. GES personnel reviewed the raw data and verified that each sample was spiked with the applicable internal standard, that the area count results of the internal standards were within the EPA Method TO-15-required $\pm 40\%$ from the initial calibration range, and that the retention times (RTs) of the internal standards did not vary by more than the EPA Method TO-15-required ± 20 seconds from the mean RT in the initial calibration range.

4.4 Method Blank Samples

One (1) EPA Method TO-15 laboratory method blank was reported at the recommended frequency of one (1) per analytical batch or one (1) per 20 samples. Method blank results were reported as non-detect by the laboratory. Using raw data, GES verified that all analytes were non-detect in the method blank samples. No qualifications were required based on the method blank results.

4.5 Laboratory Accuracy

Laboratory accuracy is a measure of system bias and can be measured by evaluating laboratory control samples (LCS) and deuterated monitoring compounds (DMC) percent recoveries.

4.5.1 TO-15 LCS

One (1) LCS sample was analyzed with the samples reported using TO-15 methodology. The analytical laboratory had established in-house LCS performance criteria (recovery limits) for evaluation of LCS recovery results prior to analysis of samples. Percent recoveries for the analytes in the LCS pair were within 70% to 130%. All recoveries for analytes in the LCS fell within acceptable ranges. No other qualifications were required on the basis of LCS results.

4.5.2 TO-15 Surrogate Compound

The surrogate compound Bromofluorobenzene was run with the samples according to the USEPA Region 2 required usage of surrogate compounds for EPA Method TO-15 (USEPA Region 9, 2000). Although not required, the analytical laboratory established in-house performance criteria (recovery limits) for evaluation of the surrogate recovery results prior to analysis of the samples. Upon review by GES personnel, recoveries were verified to be within the laboratory-provided criteria. No qualifications were required due to surrogate recoveries.

4.6 Precision, Measured by Relative Percent Differences (RPDs)

A laboratory duplicate analysis was reported for the Bathroom SS-1 sample. RPD is a tool to determine sampling and analytical precision when both concentrations exceed 5 times (5x) the reporting limit for analytes that are reported greater than 5. All RPD values indicated good precision with the exception of 2-hexanone, which exceeded 30%. 2-Hexanone is qualified as estimated with an indeterminate bias.

Table 4-2: Field Duplicate Precision
 Results reported in $\mu\text{g}/\text{m}^3$

Analyte	Bathroom SS-1	Duplicate	RPD <30%
Acetone	29	5.5J	NC
2-Butanone (MEK)	7.7J	ND	NC
Carbon Tetrachloride	ND	0.5J	NC
Chloroform	0.34J	0.31J	NC
Chloromethane	0.90J	2.5	NC
Dichlorodifluoromethane (Freon 12)	2.5	1.9	27.3
2-Hexanone (MBK)	0.93	0.52	56.6
Tetrachloroethylene	84	85	1.2
1,1,1-Trichloroethane	6.5	6.6	1.5
Trichloroethylene	4.3	4.4	2.3
Trichlorofluoromethane (Freon 11)	1.4J	1.3J	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.72J	0.46J	NC
Vinyl Acetate	2.3J	ND	NC

4.7 Data Package Completeness

The New York State Department of Conservation (NYSDEC) Category B deliverables were included in the laboratory data package; information required for validation of the data is present.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "B Janowiak", with a stylized flourish at the end.

Bonnie Janowiak, Ph.D., N.R.C.C.
Principal Environmental Chemist



Attachment E – Product Inventory Photographic Log

Client:	Buckeye Terminals, LLC	Project:	09-01876
Site Name:	Buckeye Buffalo Terminal	Site Location:	Terminal Office Building
Image ID:	1		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Contents of the chemical storage cabinet.			

Client:	Buckeye Terminals, LLC	Project:	09-01876
Site Name:	Buckeye Buffalo Terminal	Site Location:	Terminal Office Building
Image ID:	2		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Shop Pro – brake cleaner, 23 aerosol cans located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	3		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
WD-40, two (2) aerosol cans located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	4 & 5		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Raid – Ant & Roach, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	6 & 7		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Castle – Shop Solv., One (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	8 & 9		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Griot's Garage – Glass Cleaner, one (1) aerosol can located in the chemical storage cabinet.			

Client:	Buckeye	Project:	09-01875
Site Name:	Buckeye Buffalo Terminal	Site Location:	Terminal Building
Image ID:	10		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Tru-Blu Pipe Thread Sealant, one (1) container located in the chemical storage cabinet.			

Client:	Buckeye	Project:	09-01875
Site Name:	Buckeye Buffalo Terminal	Site Location:	Terminal Building
Image ID:	11 & 12	 	
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Invisible Glass – Glass Cleaner, one (1) bottle located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	13		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Blue Monster PTFE Pipe Thread Sealant, one (1) container located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	14		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Bostik Never-Seez -- Anti-Seize and lubricating compound, one (1) container located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	15		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Unknown compound, one (1) container located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	16		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Bostik Never-Seez -- Anti-Seize and lubricating compound, regular grade, one (1) container located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	17		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Oatey Purple Primer, one (1) container located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	18		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Permatex – Blue RTV Silicone Gasket Maker, one (1) tube located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	19		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Big Shot Blaster, four (4) aerosol cans located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	20		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Blaster – Garage Door Lubricant, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	21		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Spectracide – Wasp & Hornet Killer, four (4) aerosol cans located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	22		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Do it Best - Wasp and Hornet Killer, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	23		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Cable Clean, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	24		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Fault-Finder – Group 1 Cleaner 1071, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	25		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Fault-Finder Group 1 Penetrant 1072, one (1) aerosol can located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	26		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Liquid Wrench – Chain & Cable Lube, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	27		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Fault-Finder Group 1 Developer 1073, one (1) aerosol can located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	28		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: QD Electronic Cleaner, two (2) aerosol cans located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	29		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: CarQuest – Belt Dressing, two (2) aerosol cans located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	30		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: CarQuest - Battery Terminal Protector, one (1) aerosol can located in the chemical storage cabinet.			

Page 14 of 22

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	33		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Goo Gone, one (1) bottle located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	34		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: NOCO Remove+ Battery Cleaner and Acid Detector, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	35		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Purple Power, four (4) bottles located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	36		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Lysol, All purpose cleaner plus bleach, one (1) bottle located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	37		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Ben's Tick and Insect repellent, one (1) aerosol can located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	38		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Boss Hydraulic Fluid, one (1) bottle located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	39		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Prestone Concentrate Antifreeze/coolant, two (2) bottles located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	40		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
A/C Pro Ultra Synthetic A/C Recharge, one (1) aerosol can located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	41		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Miscellaneous containers of various oils located in the chemical storage cabinet.			

Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	42		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Quaker State SAW 5W-30 Motor Oil, one (1) bottle located in the chemical storage cabinet.			

Client: Buckeye Terminals, LLC		Project: 09-01876	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Office Building	
Image ID:	43		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Castrol Mercon V, automatic transmission fluid, one (1) bottle located in the chemical storage cabinet.			
Client: Buckeye		Project: 09-01875	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Building	
Image ID:	44		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments: Isopropyl Alcohol 1%, first aid antiseptic, one (1) bottle located in the chemical storage cabinet.			

Client: Buckeye Terminals, LLC		Project: 09-01876	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Office Building	
Image ID:	45		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Diesel Engine Starting Fluid, one (1) container located in the chemical storage cabinet.			

Client: Buckeye Terminals, LLC		Project: 09-01876	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Office Building	
Image ID:	46		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
Valvoline SAE 30 motor oil, three (3) bottles. Valvoline SAE 10W-30 motor oil, one (1) bottle. Valvoline SAE-20W motor oil, one (1) bottle. All located in the chemical storage cabinet.			

Client: Buckeye Terminals, LLC		Project: 09-01876	
Site Name: Buckeye Buffalo Terminal		Site Location: Terminal Office Building	
Image ID:	47		
Location:	Warehouse		
Direction:	NA		
Date/Time:	2/26/2024		
Comments:			
High performance lubricants – HP Premium aluminum complex grease, four (4) containers located in the chemical storage cabinet.			