

20 December 2024

Mr. Joseph T. Martella II, Senior Engineer
Site Remediation Program
Office of Waste Management
RI Department of Environmental Management
235 Promenade Street
Providence, RI 02908

*RE: Quarterly O&M Status Report No. 69
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 15066.12*

Dear Mr. Martella:

On behalf of the City of Providence School Department (City), EA Engineering, Science, and Technology, Inc., PBC (EA) is providing this Quarterly Operations and Maintenance (O&M) Status Report in accordance with Provision 6(f) of the Order of Approval and amendments (Amended OA) for the referenced Alvarez High School site (the Site, formerly Adelaide Avenue High School).

This O&M Report summarizes recently completed Site activities related to compliance sub-slab vapor and indoor air sampling for the period from September 2024 through November 2024.

If you have any questions or require additional information, please contact me at (401) 287-0370.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC., PBC



Frank B. Postma, LSP, LEP, PG
Project Manager

cc: Superintendent, Prov. Dept. of Public Schools Director, Prov. Dept. of Public Property
A. DeGrace, Prov. Redevelopment Agency Knight Memorial Library Repository
R. Dorr, Neighborhood Resident Principal Biah, Alvarez High School
Rep. Scott Slater

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Quarterly O&M Status Report No. 69

Summarizing Sub-slab Depressurization and Indoor Air Monitoring and Sampling Activities

Alvarez High School Site (Formerly Adelaide Avenue High School) Providence, Rhode Island

Prepared for

City of Providence School Department
797 Westminister Street
Providence, Rhode Island 02903

Prepared by:

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(401) 736-3440

EA Project No. 15066.12
December 2024

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1. INTRODUCTION AND BACKGROUND

On behalf of the City of Providence School Department (the City), EA Engineering, Science, and Technology, Inc., PBC (EA) has prepared this Quarterly Operations and Maintenance (O&M) Status Report No. 69 for the Parcel B area of the former Gorham Manufacturing site in Providence, Rhode Island, formerly referred to as Adelaide Avenue High School and now referred to as Alvarez High School (the Site). A Site Location Map is provided as Figure 1. This report has been prepared to satisfy provision 6(f) of the Rhode Island Department of Environmental Management (RIDEM) Order of Approval (OA) issued in June 2006, as amended in February 2007, July 2007, and July 2009. For the purposes of this report, the original and the amended OA will collectively be referred to as the Amended OA.

The Amended OA specifies the details of the approved remedy for the Site including, but not limited to, the installation of a sub-slab depressurization (SSD) system, installation of a continuous indoor air methane monitoring system, and implementation of an associated periodic monitoring and sampling program. In August 2007, the RIDEM-approved remedy for the Site was completed and a Remedial Action Closure Report (RACR) was submitted to RIDEM. In July 2009, the periodic indoor air and sub-slab vapor sampling schedule was reduced to quarterly sampling from previously required monthly sampling.

This report summarizes the O&M, monitoring, and sampling activities completed at the Site for the three-month period from September 2024 through November 2024 (Quarterly Reporting Period No. 69). Please refer to Quarterly O&M Status Reports No. 1 through No. 68 for information regarding monitoring and sampling at the Site during the previous quarters. The RACR and previously submitted monthly correspondence contain details regarding the results of the monitoring and sampling program for the period prior to Reporting Period No. 1.

2. SUMMARY OF SSD SYSTEM AND INDOOR METHANE MONITORING SYSTEM PERFORMANCE

2.1 SSD SYSTEM AND RELATED MONITORING

The following SSD system performance parameters were inspected and/or monitored at the frequencies indicated below in accordance with the Amended OA and through discussions with RIDEM to evaluate system performance:

- Monthly indoor air monitoring of vapor-phase constituents and methane (4 September 2024, 15 October 2024, and 14 November 2024) at 8 monitoring locations, as illustrated on the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2.
- Monthly sub-slab monitoring of vacuum pressure, vapor-phase constituents, and methane (4 September 2024, 15 October 2024, and 14 November 2024) at 11 monitoring locations, as illustrated on the As-Built Sub-slab Monitoring and Sampling Locations provided as Figure 3.
- Monthly inspections and monitoring (air velocity and vacuum) of the three rooftop fans to verify proper operation and effluent concentrations.
- Monthly inspections of the electronic monitoring system associated with each of three SSD system extraction fans and the methane sensor system (automatic alarm notification via audible signal and phone notification).
- Monthly inspections of the RIDEM approved engineered cap.
- Annual sampling (4 September 2024) of nine indoor air locations, one ambient outdoor air location, six sub-slab points, and three rooftop fans
- Quarterly sampling (15 October 2024) of nine indoor air locations, one ambient outdoor air location, and six sub-slab points.

Copies of O&M field forms summarizing SSD System monitoring data collected during this reporting period are provided in Appendix A.

2.1.1 Sub-Slab Monitoring

Vacuum measurements taken at each interior and perimeter sub-slab monitoring/sampling locations ranged from -0.167 to 0.039 inches of water column. Positive pressure points were observed at MP-3 in all months, at MP-4 in October and November, and at MP-1 in November. Zero pressure values were observed at MP-6 and IMP-1 in September and at IMP-3 in October. All rooftop fans were observed to be operating correctly during this reporting period; pressure and air velocity recorded at all rooftop fans were within normal ranges. During the June 2024 to

August 2024 quarter, indoor sub-slab monitoring points have had lower than usual PID readings in September and October, and greatly elevated PID readings in November. Adequate vacuum pressures were observed in most places below the slab with notable exceptions as shown above. Especially elevated VOC levels were observed in the sub-slab in November, ranging from 1205 ppb at MP-7 and 12,180 ppb at IMP-3.

Due to the drastic increase in subslab VOCs as well as an increase in indoor air VOCs in Room 116, a secondary monitoring and sampling event took place on 22 November.

2.1.2 Rooftop Extraction Fans

The rooftop extraction fans were replaced with upgraded models on 20 October 2023 as part of the proposed mitigation strategy to address volatile organic compounds (VOCs) in the sub-slab. Each fan had inspection ports installed along their position on the 1st floor to allow for measurements of pressure between the slab and the roof. Each of these three trunk lines was shown to have adequate vacuum on the 1st floor. In addition, on 7 November 2023 the SSD system was video inspected to determine if blockages existed in the PVC trunk lines below the slab. The video inspection found unobstructed trunk lines and sump pits in each line accessible by the video system, representing 50% of the installed sub-slab piping/sump pit network. These trunk lines and sump pits that were clear were SP-4, SP-5, SP-7, and SP-8.

The pressure sensors on each rooftop fan are connected to an alarm panel and autodialer system, which is triggered when a change in pressure is detected in the rooftop exhaust fans. The exhaust fan alarm system is connected to back-up battery packs in the control panel, which have sufficient capacity to operate for multiple days in the event of an electrical outage or power disruption to the system. Negative fan vacuums, fan speeds, and the negative sub-slab pressures observed at the site were within normal ranges and the system is operating properly. Sub-slab pressures observed at the site were mostly negative with four exceptions of zero or positive values across three monitoring points. The extraction fan alarm was triggered on 13 November, likely due to high winds that night interfering with the air exiting the rooftop fans.

2.1.3 Engineered Cap

The engineered cap appeared in good condition. Previously eroded areas of the cap on Parcel B were filled with clean loam and seeded on 7 July 2022. EA will continue to monitor the cap for any future deficiencies.

In April 2020, PPSD installed two 10-foot (ft) by 20-ft by 4-in thick concrete throwing pads in the southwestern corner of Parcel C on the grassed recreation field between Dr. Jorge Alvarez High School and Mashapaug Pond. The pads were constructed in accordance with the Temporary Parcel C Cap Disturbance Notification letter submitted to RIDEM on 31 March 2020. The concrete pads remain in place as part of the engineered cap and concrete pad inspections have been incorporated into the routine monitoring events. The concrete pads appeared to be in good condition and no cracks or chips were observed. Shotput and discus landing zones also

appeared in good condition and no erosion damage to the cap was present. A site plan depicting the location of the shotput and discus throwing pads is included as Figure 4.

Any and all future landscaping work, including gardening at Alvarez High School (Parcel B), and/or the shot-put and discus throwing field (Parcel C) must adhere to the Soil Management Plan and the Amended OA to ensure the engineered cap is not damaged and the protective cover soil layer is maintained. EA will continue to inspect the pads on a monthly basis and report findings and routine maintenance in the Quarterly O&M Status Reports.

2.2 INDOOR METHANE MONITORING SYSTEM

Indoor methane concentrations were monitored by an indoor methane monitoring system equipped with automatic alarm notification via audible signal and phone notification within the school at eight RIDEM-approved locations (refer to the Indoor Air Sampling and Methane Monitoring System Diagram provided as Figure 2) during this reporting period. The methane monitoring system was inspected during each monitoring event and the filters were last replaced on 15 October 2024. The next filter replacement is scheduled for January 2024. This methane alarm was triggered multiple times during this quarter due to power outages at the school. EA responded to each of them within 48 hours to inspect the system and found no indication of heightened methane concentrations in the school.

2.3 AMBIENT OUTDOOR AND INDOOR AIR SAMPLING

Nine indoor air samples and one ambient outdoor air sample were collected at the site at RIDEM-approved sampling locations during the annual sampling event on 4 September 2024. The samples collected on 4 September 2024 and 15 October 2024 were submitted to Pace Analytical Laboratory (Pace) for analysis of VOCs via Method TO-15 Selective Ion Monitoring (SIM). Each summa canister used during this monitoring period was individually certified to ensure that all containers were devoid of residual contamination. The typical summa canister certification process occurs in batches. However, individual certification was requested by RIDEM for this and future sampling events after residual contamination affected the 1 August 2014 sampling results.

Sample results were compared to the State of Connecticut's Draft Proposed Indoor Residential Targeted Air Concentrations (CT RTACs) and the RIDEM approved threshold level in accordance with the Amended OA. Sampling locations for the indoor air samples are illustrated on Figure 3. The 4 September 2024 and 15 October 24 ambient outdoor air samples were collected east-southeast of the school. A data summary table is provided as Appendices B and C and a copy of the laboratory data reports associated with the sampling events are provided in Appendix E.

4 September 2024

Four analytes, Bromodichloromethane, Carbon Tetrachloride, Chloroform, and 1,2-Dichloroethane were identified in indoor air above the CT RTACs threshold levels during the 4 September 2024 annual sampling event.

An exceedance of bromodichloromethane was identified in the kitchen storage room at a level of 0.096 $\mu\text{g}/\text{m}^3$, above the CT RTAC threshold value of 0.034 $\mu\text{g}/\text{m}^3$. Bromodichloromethane is a common byproduct of chlorinated water, as part of the water purification process in treatment plants. Recently treated water can be expected to be in and around the kitchen area of the school.

An exceedance of carbon tetrachloride was identified in every sample room at levels ranging from 0.57 to 0.62 $\mu\text{g}/\text{m}^3$, above the CT RTAC threshold value of 0.5 $\mu\text{g}/\text{m}^3$. Carbon tetrachloride is a documented background ambient compound in the area and can otherwise be sourced indoors from aerosol cans, lacquers, and varnishes that pertain to cleaning and upkeep of floors and furniture.

An exceedance of chloroform was identified in the kitchen storage room at a level of 1.5 $\mu\text{g}/\text{m}^3$, above the CT RTAC threshold value of 0.5 $\mu\text{g}/\text{m}^3$. Chloroform is a common byproduct of chlorinated water, as part of the water purification process in treatment plants. Recently treated water can be expected to be in and around the kitchen area of the school.

An exceedance of 1,2-dichloroethane (1,2-DCA) was identified in the kitchen storage rooms and rooms 116, 118, and 152 at levels of 0.07, 0.07, 0.078, 0.07 $\mu\text{g}/\text{m}^3$, respectively. These values are above CT RTAC threshold value of 0.07 $\mu\text{g}/\text{m}^3$, but below the RIDEM threshold value of 0.8 $\mu\text{g}/\text{m}^3$. 1,2-DCA is a clear manufactured liquid that is not found naturally in the environment. 1,2-DCA is used to make vinyl chloride, which is used to make a variety of plastic and vinyl products including polyvinyl chloride (PVC) pipes and other important construction materials, packaging materials, furniture and automobile upholstery, wall coverings, housewares, and automobile parts. Historically, when detected indoors, 1,2-DCA has exceeded in the winter and spring months since 2011. This coincides with colder temperatures, and hence closed windows, and manufactured plastic items and decorations possibly contributing to this condition. We believe these exceedances to be a result of these sources.

15 October 2024

Three analytes, Bromodichloromethane, Carbon Tetrachloride, Chloroform, and 1,2-Dichloroethane were identified in indoor air above the CT RTACs threshold levels during the 4 September 2024 annual sampling event.

An exceedance of carbon tetrachloride was identified in every sample room and outdoors at levels ranging from 0.554 to 0.616 $\mu\text{g}/\text{m}^3$, above the CT RTAC threshold value of 0.5 $\mu\text{g}/\text{m}^3$. Carbon tetrachloride is a documented background ambient compound in the area and can otherwise be sourced indoors from aerosol cans, lacquers, and varnishes that pertain to cleaning and upkeep of floors and furniture. The outdoor ambient presence of carbon tetrachloride is historic at this site and is not cause for concern.

An exceedance of chloroform was identified in the kitchen storage room and cafeteria at a level of 0.913 and 0.977 $\mu\text{g}/\text{m}^3$, respectively, above the CT RTAC threshold value of 0.5 $\mu\text{g}/\text{m}^3$. Chloroform is a common byproduct of chlorinated water, as part of the water purification

process in treatment plants. Recently treated water can be expected to be in and around the kitchen area of the school.

An exceedance of 1,2-dichloroethane (1,2-DCA) was identified in room 116 at levels of 0.081 $\mu\text{g}/\text{m}^3$. This value is above CT RTAC threshold value of 0.07 $\mu\text{g}/\text{m}^3$. 1,2-DCA is a clear manufactured liquid that is not found naturally in the environment. 1,2-DCA is used to make vinyl chloride, which is used to make a variety of plastic and vinyl products including polyvinyl chloride (PVC) pipes and other important construction materials, packaging materials, furniture and automobile upholstery, wall coverings, housewares, and automobile parts. Historically, when detected indoors, 1,2-DCA has exceeded in the winter and spring months since 2011. This coincides with colder temperatures, and hence closed windows, and manufactured plastic items and decorations possibly contributing to this condition. We believe these exceedances to be a result of these sources.

22 November 2024

Due to the drastic increase in subslab VOCs as well as an increase in indoor air VOCs in Room 116, a secondary monitoring and sampling event took place on 22 November. One indoor air sample was taken in Room 116 and the indoor air was monitored with a PID. The PID indicated that the room had a VOC concentration of at most 2 ppm and the lab analysis revealed only an exceedance of carbon tetrachloride. The concentration of carbon tetrachloride in the samples was 0.535 $\mu\text{g}/\text{m}^3$, above the indoor limit of 0.5 $\mu\text{g}/\text{m}^3$. Possible sources of indoor carbon tetrachloride are discussed above.

The MDLs for several VOCs reported via TO-15 analysis were greater than the respective CT RTACs/RIDEM threshold levels even though analysis was performed using the method with the lowest available detection levels (SIM procedure). The elevated MDLs occurred primarily with analytes that are not the constituents of concern (COCs) for the project. Additionally, many of these analytes have never been detected in indoor air at concentrations greater than the applicable standards. Therefore, the slightly elevated MDLs for some analytes were not considered significant and do not disqualify the dataset.

2.4 SUB-SLAB VAPOR SAMPLING AND EVALUATION OF POTENTIAL VOC REBOUND EFFECT

A total of 11 RIDEM-approved sub-slab sampling locations are installed at the Site. Six sub-slab samples are typically collected on the rotating schedule in accordance with the Amended OA and analyzed for VOCs via US EPA Method TO-15 SIM. Two interior sub-slab vapor samples and four exterior sub-slab vapor samples were collected on 4 September and 15 October 2024. The sub-slab analytical results are presented in Appendix C and a copy of the laboratory data reports associated with the sampling events are included in Appendix E. The locations for sub-slab sampling are illustrated on Figure 3.

2.5 SUMMARY OF ROOFTOP VOC EMISSIONS

Previous rooftop effluent sampling rounds conducted in March 2007 (immediately after SSD system startup), June 2007, June 2008, September 2009, and annually in July thereafter (2010 – 2022) indicated compliance with all Air Pollution Control Permit Applicability Thresholds. Additionally, in October 2014 RIDEM conducted roofline and downwind outdoor air sampling to determine if rooftop fan exhaust was possibly infiltrating the building or impacting downwind air. The roofline and downwind sample concentrations were approximately the same as the upwind sample concentration and significantly lower than those concentrations observed in the rooftop fan exhaust, indicating that exhausted vapors from the rooftop fans were well dispersed and are not causing significant impacts downwind or inside the building.

The Amended OA requires that rooftop VOC sampling be completed on an annual basis. Concentrations of VOCs in rooftop fan vents continue to be evaluated based on the regulatory thresholds and their effect to background air at the school and the nearby residential neighborhood. Rooftop fan sampling was last conducted on 4 September 2024. No exceedances of the RIDEM Air Pollution Control Permit Applicability Thresholds for hourly, daily, or annual emissions were observed. A summary of historical rooftop fan emission data is summarized in Table 1 below.

Table 1 Annual Rooftop Fan Emissions

Annual Monitoring Date	Total Emissions ^a (lbs/year)
-	RIDEM Threshold: 50,000 ^b
20 July 2012	4.08
9 July 2013	3.47
1 August 2014	2.45
22 October 2014	2.83
21 July 2015	2.93
20 July 2016	2.86
26 July 2017	2.07
27 July 2018	0.412
29 July 2019	3.82
23 July 2020	1.47
21 July 2021	0.690
28 July 2022	2.21
18 July 2023	2.41
4 September 2024	0.721
^a Sum of all three rooftop fan emissions; emissions based on measured flow speed and EPA Method TO15-SIM air sample analysis ^b RIDEM Air Pollution Control Regulation No. 9 [Amended April 2004] RIDEM = Rhode Island Department of Environmental Management lbs/year = pounds of gas per year	

All emissions are below the RIDEM Air Pollution Control Regulations. Fluctuations in emissions since July 2021 may be indicative of abnormally high subsurface concentrations of VOCs along the eastern portion of the school. One possible explanation for this variability may be fluctuating depths to the groundwater table in the vicinity of the school. As the depth to

groundwater decreases, soil gas emissions to the extraction system are anticipated to increase due to increased pressure from the capillary fringe of the site and adjoining area that is largely capped with asphalt. Full analytical results of rooftop fan sampling are summarized in Appendix D and Quarterly Monitoring Reports No. 1 – No. 68. The next annual rooftop effluent VOC sampling event is scheduled for July 2025.

3. CONCLUSIONS

The following conclusions are made based upon the completed inspections, monitoring, and sampling performed during this reporting period:

- Measured sub-slab pressures were generally negative, with the exception of 6 positive measurements and 2 zero measurements. Overall, this would indicate that the sub-slab system is working.
- The continuous operation of the SSD System and non-continuous sub-slab vacuum beneath the school illustrates ongoing, effective operation of the SSD System.
- The concrete pads and throwing areas on Parcel C appeared to be in good condition and no signs of cap degradation or erosion were observed.
- The sub-slab data was evaluated for potential rebound in accordance with the Amended OA. No evidence of increasing VOCs (i.e., VOC rebound) beneath the school has been observed. Significant fluctuations in concentrations were noted during this reporting period; these variations do not constitute an increasing trend.

4. FUTURE ACTIVITIES AND NEXT QUARTERLY SUMMARY REPORT

The following activities will be completed in accordance with the Amended OA during the next quarterly status reporting period from December 2024 to February 2025:

- Continuous monitoring of the operational status of three rooftop extraction fans;
- Monthly site inspections and monitoring using a calibrated photoionization detector with part-per-billion sensitivity and a Landtec multi-gas meter;
- Collection of air samples from nine indoor locations, one ambient outdoor location, and six sub-slab monitoring points in January 2025;
- EA will continue to work with PPSD and RIDEM to ensure that the Parcel A remedial systems are maintained and data reported in accordance with regulations;
- Any future landscaping projects and erosion repairs by PPSD must be conducted in accordance with the site-specific Soil Management Plan and the Amended OA to prevent damage to the engineered cap;
- The engineered cap on Parcel B as well as the concrete throwing pads on Parcel C will be inspected during the routine monthly sub-slab inspections and reported in future Quarterly O&M reports;

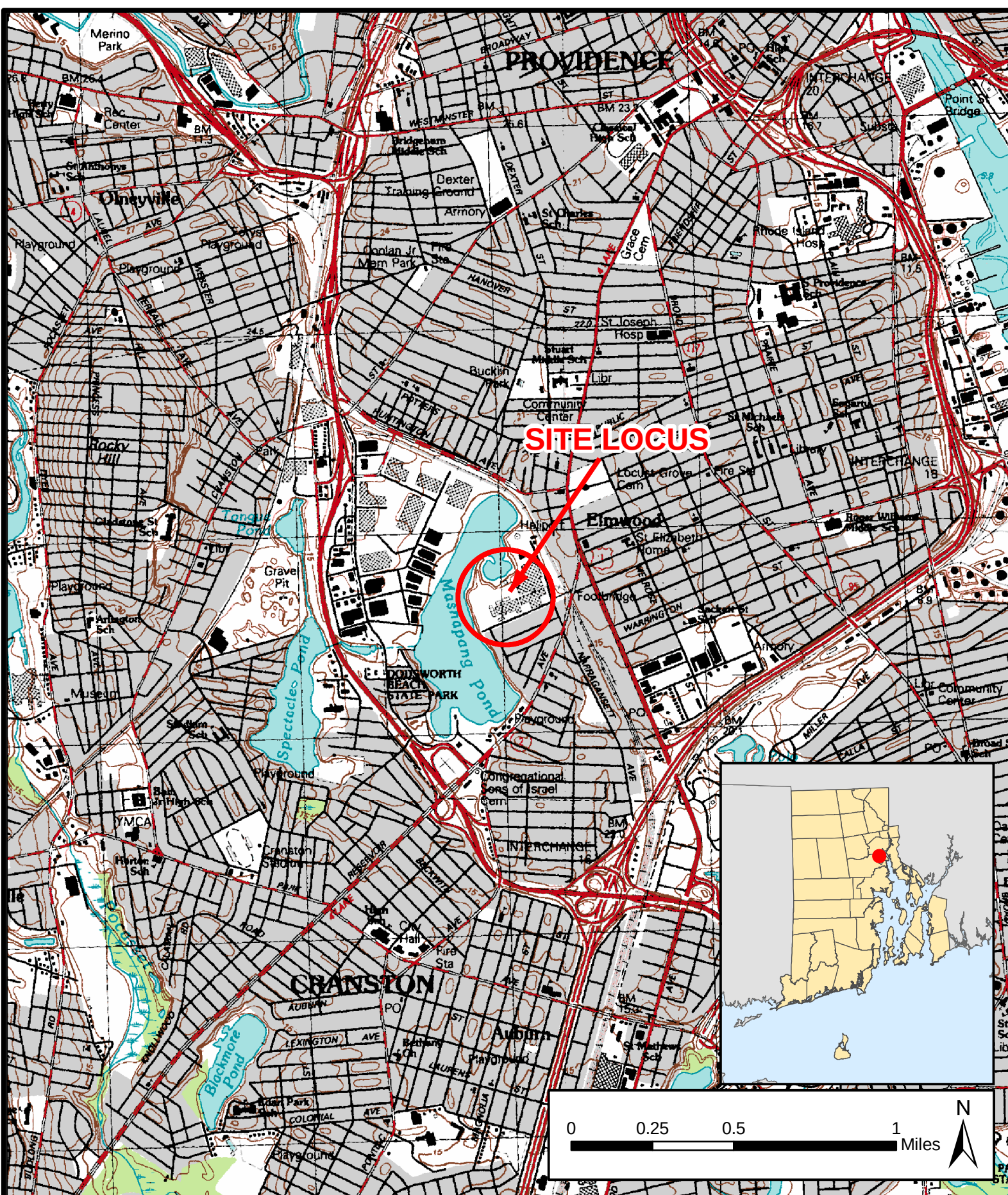
These activities will be summarized in the next status report (Quarterly Status Report No. 70), expected to be submitted by the end of March 2025.

4.1 FUTURE CORRECTIVE ACTION AND INVESTIGATION

Sub-slab and interior air VOC vapor concentrations will continue to be observed and analyzed next quarter.

FIGURES

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ALVAREZ HIGH SCHOOL
333 ADELAIDE AVENUE
PROVIDENCE, RHODE ISLAND

FIGURE 1
SITE LOCUS

PROJECT MGR:

FP

DESIGNED BY:

PT

CREATED BY:

PT

CHECKED BY:

FP

SCALE:

1:24,000

DATE:

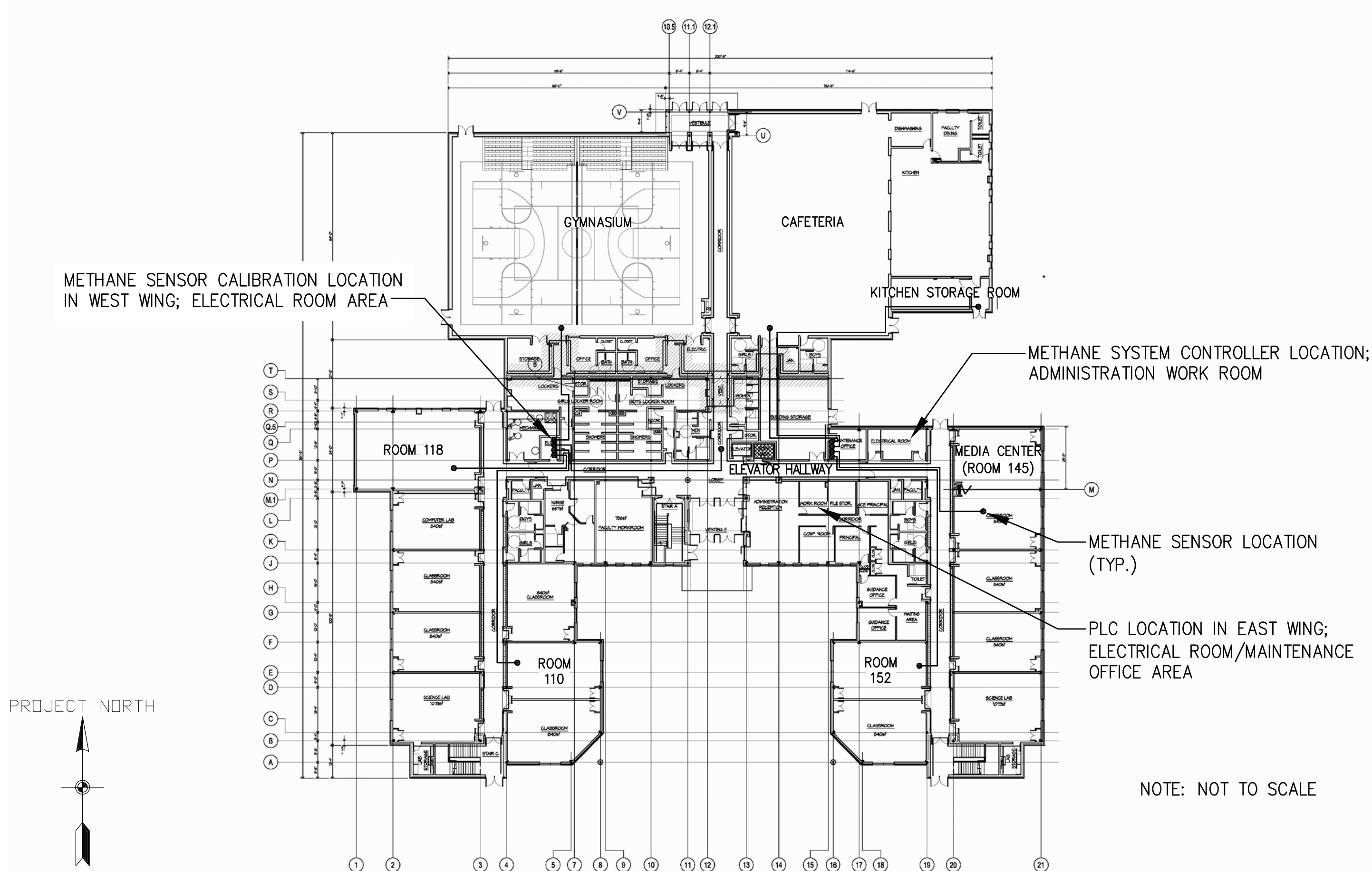
FEBRUARY 2010

PROJECT NO:

14687.01

FILE NO:

SITE_LOCUS.MXD



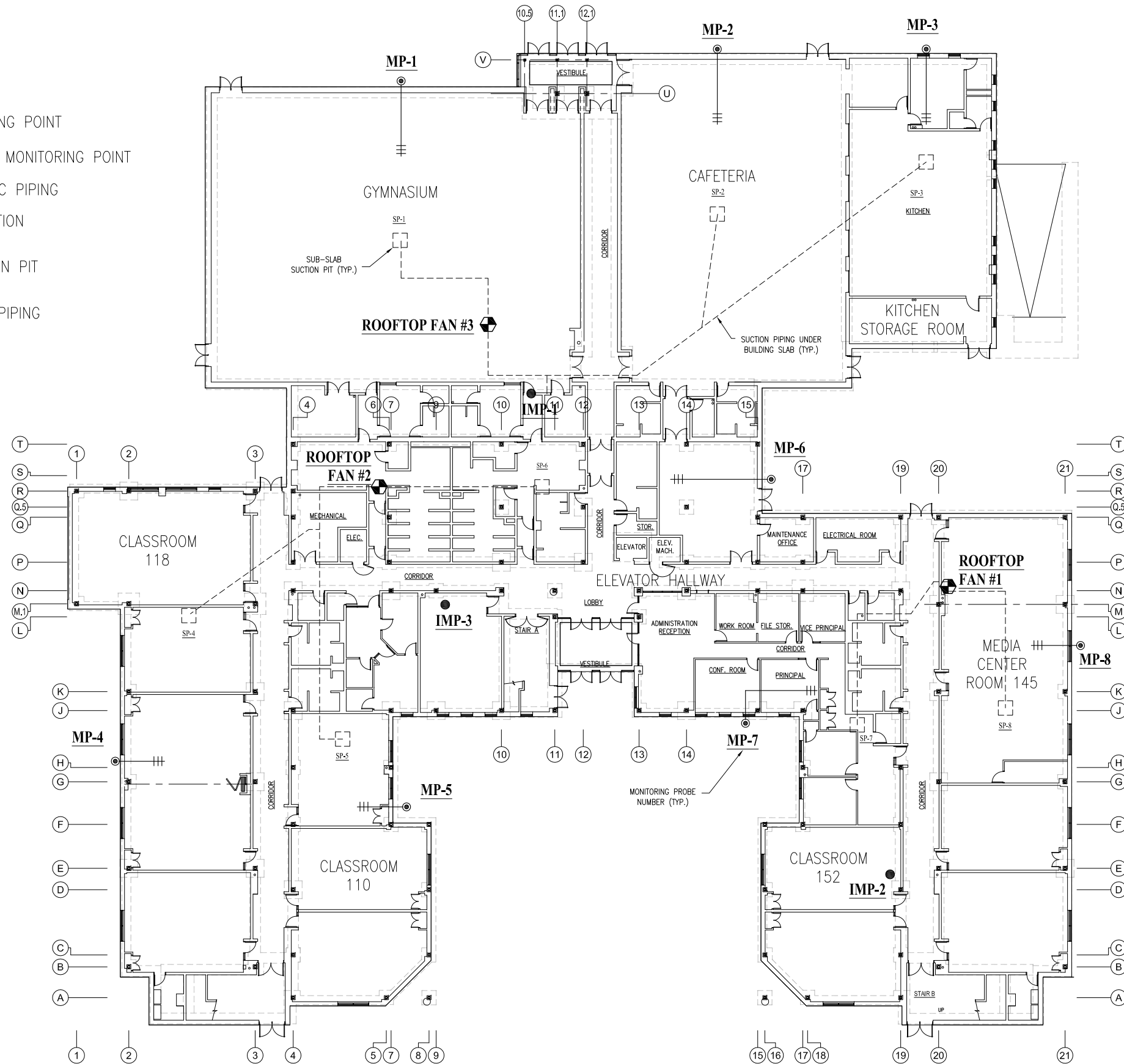
DESIGNED BY RGM	DRAWN BY DPA	DATE OCT. 16, 2013	PROJECT NO. 15066.01	FILE NAME ALVAREZ LAYOUT
CHECKED BY FBP	PROJECT MGR. FBP	SCALE NTS	DRAWING NO. —	FIGURE 2

INDOOR AIR SAMPLING AND METHANE MONITORING
SYSTEM DIAGRAM – ALVAREZ HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

QUARTERLY STATUS REPORT
FIGURE 2

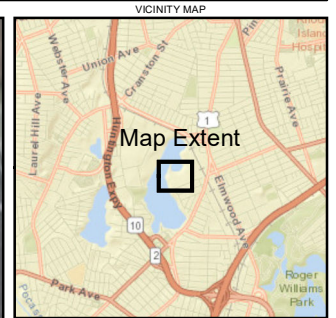
LEGEND :

- SUB-SLAB MONITORING POINT
- INTERIOR SUB-SLAB MONITORING POINT
- ||| SLOTTED 1 INCH PVC PIPING
- ⬢ ROOFTOP FAN LOCATION
- SP-1
□ SSD SYSTEM SUCTION PIT
- SOLID 4 INCH PVC PIPING



DESIGNED BY RGM	DRAWN BY DPA	DATE OCT. 16, 2013	PROJECT NO. 15066.01	FILE NAME FIG 3	AS-BUILT SUB SLAB MONITORING AND SAMPLING LOCATIONS ALVAREZ HIGH SCHOOL PROVIDENCE, RHODE ISLAND
CHECKED BY FBP	PROJECT MGR. FBP	SCALE NTS	DRAWING NO. N/A	FIGURE 3	

QUARTERLY STATUS REPORT
FIGURE 3



Legend

- Area of 12" Soil Cap with Geofabric
- Supplemental Loam Padding
- 4" Thick Concrete Pad
- Temporary Fence

Map Date: 5/15/2020
Source: ESRI Aerial 2016

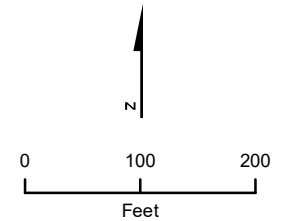


Figure 4
Gorham Parcel C
Temporary Cap Disturbance
Alvarez High School
Providence, Rhode Island

APPENDIX A

O&M Field Forms



EA Engineering, Science, and Technology, Inc.,
PBC

Alvarez High School - SSD & Interior Methane Monitoring System O&M

Date of O&M: 9.4.24 Performed by: TC/SP

PID/Methane Calibration? no (yes/no) PID Calibration Result: 0:00

Date of last Methane Sensor Filter Replacement: 7.31.24 Replaced this O&M Visit? no (yes/no)

Auto Dialer Functioning (yes/no): Yes

General Status of SSD System: Yes

General Status of Methane Monitoring System: good

Eng. Cap/Fence Inspection Performed/Notes: fine

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring	Methane Monitoring			Air/Vapor Sample Collection						Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc continue on separate sheet if needed)
			PID (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (Inches Hg)	End Time	End Vac (Inches Hg)	
Gymnasium	NA	NA	150	0	0	0	2223	4712	949	-29	1027	0	
Cafeteria	NA	NA	133	0	0	0	3668	4733	955	-29	1028	-3	
Kitchen Storage Room	NA	NA	160	0	0	0	2201	4697	957	-30	1053	-5	
Elevator Hallway	NA	NA	118	0	0	0	2013	4713	932	-30	1005	-4.5	
Room 145	NA	NA	130	0	0	0	2034	4732	1002	-30	1035	-3.5	
Room 152	NA	NA	312	0	0	0	1618	4696	945	-28	1021	-1	
Room 118	NA	NA	190	0	0	0	1334	4714	938	-30	1015	-1.5	
Room 110	NA	NA	360	0	0	0	2463	4711	937	-30	1051	-7	Wax warmer in room
Room 116	NA	NA	121	NA	0	0	1245	4583	934	-30	1016	-3	
MP-1	-0.036	NA	53	NA	0	0	1027	4657	1248	-30	1323	-2.5	
MP-2	-0.046	NA	0	NA	0	0	-	-	-	-	-	-	
MP-3	0.013	NA	50	NA	0	0	1621	4626	1242	-30	1321	-5	
MP-4	-0.012	NA	16	NA	0	0	1878	4600	1252	-30	1325	-2.5	
MP-5	-0.039	NA	0	NA	0	0	-	-	-	-	-	-	
MP-6	0	NA	0	NA	0	0	2443	4599	1239	-29	1310	-4.5	
MP-7	-0.017	NA	0	NA	0	0	-	-	-	-	-	-	
MP-8	-0.078	NA	14	NA	0	0	-	-	-	-	-	-	
IMP-1	0	NA	107	NA	0	0	1841	4700	953	-30	1027	-1	
IMP-2	-0.035	NA	976	NA	0	0	1327	4671	930	-30	1003	-4	
IMP-3	-0.015	NA	1609	NA	0	0	-	-	-	-	-	-	
Roof-Top Fan 1	-4	2345	69	NA	0	0	1136	4266	1133	-30	1208	-4	
Roof-Top Fan 2	-3	2211	75	NA	0	0	1869	4738	1127	-30	1205	-3	
Roof-Top Fan 3	-4.2	1973	95	NA	0	0	1873	4739	1115	-30	1155	-3.5	
Ambient Outdoor Air	NA	NA	46	NA	0	0	1943	4725	1233	-30	1307	-5	

NA: not applicable.

NM: not monitored on this date.

NS : not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%.

If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.



EA Engineering, Science, and Technology, Inc.,
PBC

Alvarez High School - SSD & Interior Methane Monitoring System O&M

Date of O&M: 10.16.24 Performed by: TC/SP
 PID/Methane Calibration? no (yes/no) PID Calibration Result: 0:00
 Date of last Methane Sensor Filter Replacement: 7.31.24 Replaced this O&M Visit? yes (yes/no)
 Auto Dialer Functioning (yes/no): Yes
 General Status of SSD System: Yes
 General Status of Methane Monitoring System: good
 Eng. Cap/Fence Inspection Performed/Notes: fine

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring	Methane Monitoring			Air/Vapor Sample Collection						Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc continue on separate sheet if needed)
			PID (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (Inches Hg)	End Time	End Vac (Inches Hg)	
Gymnasium	NA	NA	3	0	0	0	3325	1522	945	-29.31	1029	0	
Cafeteria	NA	NA	0	0	0	0	3564	490	952	-29.29	1028	-1.47	
Kitchen Storage Room	NA	NA	0	0	0	0	2806	1816	953	-29.36	1027	3.93	
Elevator Hallway	NA	NA	9	0	0	0	991	1466	930	-29.38	1006	-0.07	Student tampered with can, no visible issue.
Room 145	NA	NA	0	0	0	0	2926	912	931	-29.59	1007	-1.53	
Room 152	NA	NA	6	0	0	0	765	1443	934	-29.46	1008	-2.64	
Room 118	NA	NA	8	0	0	0	1549	398	923	-29.61	1002	-0.66	
Room 110	NA	NA	59	0	0	0	4244	2172	926	-29.48	1004	-0.96	
Room 116	NA	NA	50	NA	0	0	2448	1581	924	-29.42	1003	-0.46	
MP-1	-0.087	NA	0	NA	0	0	-	-	-	-	-	-	
MP-2	-0.099	NA	0	NA	0	0	3604	366	1110	-29.24	1144	-3.64	
MP-3	0.022	NA	0	NA	0	0	-	-	-	-	-	-	
MP-4	0.02	NA	0	NA	0	0	-	-	-	-	-	-	
MP-5	-0.05	NA	0	NA	0	0	2835	849	1120	-29.44	1152	-3.71	
MP-6	-0.022	NA	7	NA	0	0	-	-	-	-	-	-	
MP-7	-0.167	NA	0	NA	0	0	2380	1458	1124	-28.85	1157	-3.5	
MP-8	-0.093	NA	0	NA	0	0	2915	1639	1127	-29.49	1159	-0.4	
IMP-1	-0.004	NA	0	NA	0	0	4271	2160	948	29.43	1030	-0.25	
IMP-2	-0.026	NA	72	NA	0	0	-	-	-	-	-	-	
IMP-3	0	NA	125	NA	0	0	2329	2360	921	-29.25	1000	-0.22	
Roof-Top Fan 1	-3.8	2044	0	NA	0	0	-	-	-	-	-	-	
Roof-Top Fan 2	-3.8	2043	0	NA	0	0	-	-	-	-	-	-	
Roof-Top Fan 3	-4.2	2066	0	NA	0	0	-	-	-	-	-	-	
Ambient Outdoor Air	NA	NA	0	NA	0	0	1972	2126	1125	-29.34	1158	-3.8	

NA: not applicable.

NM: not monitored on this date.

NS : not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%.

If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.



EA Engineering, Science, and Technology, Inc.,
PBC

Alvarez High School - SSD & Interior Methane Monitoring System O&M

Date of O&M: 11.14.24

Performed by: TC

PID/Methane Calibration? no (yes/no)

PID Calibration Result: 0:00

Date of last Methane Sensor Filter

Replacement: 10.15.24

Replaced this O&M Visit? no (yes/no)

Auto Dialer Functioning (yes/no): Yes

General Status of SSD System: Yes

General Status of Methane

Monitoring System: good

Eng. Cap/Fence Inspection

Performed/Notes: fine

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring	Methane Monitoring			Air/Vapor Sample Collection						Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc continue on separate sheet if needed)
			PID (ppb)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time	Start Vac (inches Hg)	End Time	End Vac (inches Hg)	
Gymnasium	NA	NA	2040	0	0	0							
Cafeteria	NA	NA	2363	0	0	0							
Kitchen Storage Room	NA	NA	2634	0	0	0							
Elevator Hallway	NA	NA	1966	0	0	0							
Room 145	NA	NA	1167	0	0	0							
Room 152	NA	NA	3913	0	0	0							
Room 118	NA	NA	3435	0	0	0							
Room 110	NA	NA	5520	0	0	0							
Room 116	NA	NA	12150	NA	0	0							
MP-1	0.039	NA	3525	NA	0	0							
MP-2	-0.06	NA	1265	NA	0	0							
MP-3	0.023	NA	2548	NA	0	0							
MP-4	0.02	NA	1903	NA	0	0							
MP-5	-0.043	NA	1480	NA	0	0							
MP-6	-0.011	NA	3075	NA	0	0							
MP-7	-0.036	NA	1205	NA	0	0							
MP-8	-0.095	NA	2009	NA	0	0							
IMP-1	-0.02	NA	1653	NA	0	0							
IMP-2	-0.033	NA	11980	NA	0	0							
IMP-3	-0.021	NA	12180	NA	0	0							
Roof-Top Fan 1	-3.8	2150	2960	NA	0	0							
Roof-Top Fan 2	-3.8	1918	2306	NA	0	0							
Roof-Top Fan 3	-4.4	2050	2732	NA	0	0							
Ambient Outdoor Air	NA	NA	2064	NA	0	0							

NA: not applicable.

NM: not monitored on this date.

NS : not sampled on this date.

* RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%.

If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

APPENDIX B

Indoor and Ambient Outdoor Air Analytical Summary

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Room																				
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Acetone	180.0	10-Jan-18	10.0		15.0		13.0		14.0		14.0		16.0		16.0		21.0				7.0	U	
		11-Apr-18	20.0		18.0		16.0		17.0		16.0		27.0		17.0		22.0				9.5 ^D		
		27-Jul-18	23		18		14		18		15		16		16		6.7				15		
		24-Oct-18	16		16		15		25		22		35		15		11				9.6		
		16-Jan-19	31		28		16		29		270		34		23		17				11		
		12-Apr-19	21		26		20		22		14		30		15		35				10		
		29-Jul-19	19		22		15		16		19		19		14		21				20		
		29-Oct-19	NS		8.5		11		12		14		33		4.8		NS				7.9		
		1-Nov-19	20		NS		NS		NS		NS		NS		NS		28				NS		
		21-Jan-20	16		7.10		7.30		8.00		10.00		23.00		14.00		13.00				3.40		
		22-Apr-20	8.6		13		7.9		8.6		4.9		5.6		8.9		9				9.1		
		23-Jul-20	19		16		14		18		25		26		22		18				10		
		29-Oct-20	15		13		14		14		13		12		13		14				8.1		
		19-Jan-21	7.6		5.4		4.4		5.2		4.3		5.5		6.3		7.6				4.5		
		15-Apr-21	12		6.7		6.9		8		8.9		9.6		9.1		9.7				5.1		
		21-Jul-21	22		22		24		21		30		21		25		21				22		
		20-Oct-21	8.8		16		13		16		15		13		13		13				9.2		
		31-Jan-22	11		10		8.6		13		9.9		11		9.2		6.4				4.7		
		7-Apr-22	13		5.9		6.2		7		6.5		11		20		9.1				4.3		
		28-Jul-22	17		12		10		13		13		19		11		12				11		
		18-Oct-22	9.8		12		19		18		18		24		17		33				9.1		
		24-Jan-23	24		9.6		13		21		15		23		19		25				9.1		
		19-Apr-23	13		17		10		17		11		9.2		11		15				8.1		
		28-Jul-23	26		15		16		18		31		130		25		26						
		25-Oct-23	60		16		13		15		27		29		38		42				8.2		
		9-Jan-24	15		14		11		13		14		25		7.2		13				5.3		
		25-Apr-24	13		8.5		7.9		14		21		46		9.4		34		25		5.7		
		4-Sep-24	15		32		8.5		11		24		47		22		110			25	12		
		15-Oct-24	9.62		12		6.94		8.6		15.5		20.5		7.65		24.7		24.9		10.6		
		22-Nov-24															13.1						
Acrylonitrile	None	10-Jan-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		11-Apr-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			1.2 ^D	U	
		27-Jul-18	0.25	U	0.25	U	0.25	U	0.25	U	0.38	U	0.38	U	0.25	U	0.25	U			0.25	U	
		24-Oct-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		16-Jan-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		12-Apr-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		29-Jul-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		29-Oct-19	NS		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NS				0.25	U	
		1-Nov-19	0.25	U	NS		NS	NS	NS		NS		NS		NS		0.25	U			NS	U	
		21-Jan-20	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U	0.25 ^W	U			0.25 ^W	U	
		22-Apr-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		23-Jul-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		29-Oct-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		19-Jan-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		15-Apr-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		21-Jul-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		20-Oct-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		31-Jan-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		7-Apr-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		28-Jul-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		18-Oct-22	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U	0.25 ^{LV}	U			0.25 ^{LV}	U	
		24-Jan-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		19-Apr-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U	
		28-Jul-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				U	
		25-Oct-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25		
		9-Jan-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25		
		25-Apr-24	0.25	U	0.25	U	0.36		0.95		1.8		3.4		0.53		0.25	U		2.1		0.25	U
		4-Sep-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	0.25	U
		15-Oct-24	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U	1.09	U		1.09	U	1.09	U
		22-Nov-24																	1.09	U			
Benzene	3.3	10-Jan-18	0.58		0.74		0.68		0.71		0.48		0.53		0.85		0.58				0.37		
		11-Apr-18	0.78		0.63		0.57		0.61		0.47		0.56		0.50		0.58				0.47 ^D		
		27-Jul-18	3.3		0.41		0.23		0.3		0.28		1		0.32		0.32				0.27		
		24-Oct-18	0.9		0.37		0.39		0.47		0.38		0.44		0.34		0.31				0.29		
		16-Jan-19	0.87		0.64		0.61		0.61		0.67		0.72		0.7		0.62				0.55		
		12-Apr-19	0.54		0.4		0.39		0.45		0.41		0.43		0.37		0.42				0.47		
		29-Jul-19	0.30		0.21		0.17		0.19		0.2		0.26		0.22		0.2				0.22		
		29-Oct-19	NS		0.3		0.26		0.31		0.31		0.32		0.34		NS				0.27		
		1-Nov-19	0.35		NS		NS		NS		NS		NS		NS		0.26				NS		
		21-Jan-20	0.96		0.60		0.57		0.60		0.65		0.61		0.75		0.47						
		22-Apr-20	0.17		0.16		0.15		0.16		0.16		0.16		0.17		0.16				0.15		
		23-Jul-20	0.20		0.18		0.18		0.17		0.18		0.28		0.21		0.18				0.15		
		29-Oct-20	0.77		0.85		0.74		0.67		0.82		1		0.88		0.98				1		
		19-Jan-21	0.75		0.54		0.36		0.38		0.38		0.37		0.38		0.38				0.4		
		15-Apr-21	0.21		0.25		0.25		0.26		0.26		0.26		0.25		0.064	U			0.22		
		21-Jul-21	0.87		1.1		1.1		0.79		1.4		1.4		2.5		1.2				0.67		
		20-Oct-21	1.2		0.32		0.32		0.29		0.28		0.37		</								

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	
Bromodichloromethane	0.034/0.13	10-Jan-18	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U
		11-Apr-18	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.130	U	0.067	U	0.067	U		0.67 ^D	U		
		27-Jul-18	0.067	U	0.067	U	0.067	U	0.067	U	0.10	U	0.10	U	0.067	U	0.067	U		0.067	U		
		24-Oct-18	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		16-Jan-19	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		12-Apr-19	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		29-Jul-19	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		29-Oct-19	NS		0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	NS			0.067	U		
		1-Nov-19	0.067	U	NS		NS		NS		NS		NS		NS		0.067	U		NS			
		21-Jan-20	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U		0.07	U		
		22-Apr-20	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		23-Jul-20	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		29-Oct-20	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		19-Jan-21	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		15-Apr-21	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		21-Jul-21	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		20-Oct-21	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		31-Jan-22	0.067	U	0.067	U	0.067	U	0.067	U	0.07	U	0.07	U	0.067	U	0.067	U		0.067	U		
		7-Apr-22	0.13		0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		28-Jul-22	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		18-Oct-22	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		24-Jan-23	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		19-Apr-23	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		28-Jul-23	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U					
		25-Oct-23	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		9-Jan-24	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		0.067	U		
		25-Apr-24	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	
		4-Sep-24	0.096		0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	
		15-Oct-24	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	0.134	U	
		22-Nov-24																	0.134	U			
Bromoform	0.55	10-Jan-18	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		11-Apr-18	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			1.0 ^D	U	
		27-Jul-18	0.21	U	0.21	U	0.21	U	0.21	U	0.31	U	0.31	U	0.21	U	0.21	U			0.21	U	
		24-Oct-18	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		16-Jan-19	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		12-Apr-19	0.10	U	0.10	U	0.10	U	0.10	U	0.1	U	0.1	U	0.10	U	0.10	U			0.10	U	
		29-Jul-19	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		29-Oct-19	NS		0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	NS				0.21	U	
		1-Nov-19	0.21	U	NS		NS		NS		NS		NS		NS		0.21	U			NS		
		21-Jan-20	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		22-Apr-20	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		23-Jul-20	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		29-Oct-20	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		19-Jan-21	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		15-Apr-21	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		21-Jul-21	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		20-Oct-21	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		31-Jan-22	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		7-Apr-22	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		28-Jul-22	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		18-Oct-22	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		24-Jan-23	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		19-Apr-23	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		18-Jul-23	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U					
		25-Oct-23	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		9-Jan-24	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U			0.21	U	
		25-Apr-24	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	
		4-Sep-24	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U	
		15-Oct-24	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	0.207	U	
		22-Nov-24																	0.207	U			
2-Butanone	500.0	10-Jan-18	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U			2.4	U	
		11-Apr-18	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U			12 ^D	U	
		27-Jul-18	3.90		2.4	U	2.4	U	2.4	U	3.5	U	3.5	U	2.4	U	2.4	U			2.4	U	
		24-Oct-18	2.40	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U			2.4	U	
		16-Jan-19																					

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)			
			Room	Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		
n-Butylbenzene	73.0	10-Jan-18	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		11-Apr-18	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			1.6 ^D	U
		27-Jul-18	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.47	U	0.47	U	0.32	U	0.32	U			0.32	U
		24-Oct-18	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		16-Jan-19	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		12-Apr-19	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		29-Jul-19	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		29-Oct-19	NS		0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	NS				0.32	U
		1-Nov-19	0.32	U	NS		NS		NS		NS		NS		NS		NS		0.32	U			NS	
		21-Jan-20	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		22-Apr-20	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		23-Jul-20	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		29-Oct-20	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		19-Jan-21	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		15-Apr-21	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		21-Jul-21	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U			0.63	U
		20-Oct-21	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		31-Jan-22	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		7-Apr-22	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		28-Jul-22	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		18-Oct-22	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		24-Jan-23	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		19-Apr-23	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		18-Jul-23	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U				
		25-Oct-23	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
		9-Jan-24	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U
25-Apr-24	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U				
4-Sep-24	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U	0.32	U			0.32	U		
15-Oct-24		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	0.32	U	1.1	U	
22-Nov-24																			U					
sec-Butylbenzene	73.0	10-Jan-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		11-Apr-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			1.3 ^D	U
		27-Jul-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.38	U	0.38	U	0.25	U	0.25	U			0.25	U
		24-Oct-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		16-Jan-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		12-Apr-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		29-Jul-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		29-Oct-19	NS		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NS				0.25	U
		1-Nov-19	0.25	U	NS		NS		NS		NS		NS		NS		NS		0.25	U			NS	
		21-Jan-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		22-Apr-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		23-Jul-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		29-Oct-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		19-Jan-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		15-Apr-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		21-Jul-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		20-Oct-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		31-Jan-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		7-Apr-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		28-Jul-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		18-Oct-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		24-Jan-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		19-Apr-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		18-Jul-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		25-Oct-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
		9-Jan-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U
25-Apr-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				
4-Sep-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	U		
15-Oct-24		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	0.25	U	1.1	U	
22-Nov-24																			U					
Carbon tetrachloride	0.5	10-Jan-18	0.39		0.35		0.36		0.37		0.35		0.37		0.36									

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room	Cafeteria	Gymnasium	Elevator Hallway	Room 118	Room 110	Media Center (Rm 145)	Room 152	Room 116	Ambient Outdoor (AOA-1)			
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual			
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual			
Chlorobenzene	37.0	10-Jan-18	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		11-Apr-18	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.46 ^D	U	
		27-Jul-18	0.092	U	0.092	U	0.092	U	0.14	U	0.14	U	0.092	U	
		24-Oct-18	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		16-Jan-19	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		12-Apr-19	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		29-Jul-19	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		29-Oct-19	NS	0.092	U	0.092	U	0.092	U	0.092	U	NS	0.092	U	
		1-Nov-19	0.092	U	NS	NS	NS	NS	NS	NS	0.092	U	NS	NS	
		21-Jan-20	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	
		22-Apr-20	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		23-Jul-20	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		29-Oct-20	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		19-Jan-21	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		15-Apr-21	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		21-Jul-21	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		20-Oct-21	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		31-Jan-22	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		7-Apr-22	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		28-Jul-22	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		18-Oct-22	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		24-Jan-23	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		19-Apr-23	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		18-Jul-23	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		25-Oct-23	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		9-Jan-24	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		25-Apr-24	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		4-Sep-24	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	0.092	U	
		15-Oct-24	0.461	U	0.461	U	0.461	U	0.461	U	0.461	U	0.461	U	
		22-Nov-24													
Chloroethane	500.0	10-Jan-18	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		11-Apr-18	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.26 ^D	U	
		27-Jul-18	0.053	U	0.053	U	0.053	U	0.079	U	0.079	U	0.053	U	
		24-Oct-18	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		16-Jan-19	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		12-Apr-19	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		29-Jul-19	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		29-Oct-19	NS	0.053 ^L	U	0.053 ^L	U	0.053 ^L	U	0.053 ^L	U	NS	0.053 ^L	U	
		1-Nov-19	0.053 ^L	U	NS	NS	NS	NS	NS	NS	0.053 ^L	U	NS	NS	
		21-Jan-20	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
		22-Apr-20	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		23-Jul-20	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		29-Oct-20	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		19-Jan-21	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		15-Apr-21	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		21-Jul-21	0.053	U	0.053	U	0.053	U	0.055	U	0.053	U	0.053	U	
		20-Oct-21	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		31-Jan-22	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		7-Apr-22	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		28-Jul-22	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		18-Oct-22	0.053	U	0.075	0.088	0.13	0.053	U	0.053	U	0.057	U	0.085	0.053
		24-Jan-23	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		19-Apr-23	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	
		18-Jul-23	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.17	0.13	
		25-Oct-23	0.069	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	0.053	
		9-Jan-24	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	0.053	
		25-Apr-24	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	0.053	
		4-Sep-24	0.053	U	0.053	U	0.053	U	0.053	U	0.053	U	0.053	0.053	
		15-Oct-24	0.264	U	0.264	U	0.264	U	0.264	U	0.264	U	0.264	0.264	
		22-Nov-24													
Chloroform	0.5	10-Jan-18	0.79		0.35		0.13		0.13		0.31		0.17	0.049	
		11-Apr-18	0.92		0.31		0.13		0.18		0.12		0.13	0.49 ^D	
		27-Jul-18	0.12		0.8		0.12		0.49		0.23		0.19	0.13	
		24-Oct-18	0.47		0.12		0.049	U	0.19		0.41	U	0.049	0.049	
		16-Jan-19	0.99		0.16		0.049	U	0.12		0.17	U	0.049	0.049	
		12-Apr-19	0.65		0.37		0.11		0.25		0.18		0.15	0.049	
		29-Jul-19	0.38		0.21		0.096		0.21		0.22		0.17	0.16	
		29-Oct-19	NS		0.14		0.11		0.24		0.2		NS	0.11	
		1-Nov-19	0.81		NS		NS		NS		NS		0.18	NS	
		21-Jan-20	0.05	U	0.18		0.10		0.13		0.14		0.10	0.10	
		22-Apr-20	0.1		0.049	U	0.049	U	0.049	U	0.049	U	0.049	0.049	
		23-Jul-20	0.59		0.2		0.12		0.16		0.14		0.17	0.12	
		29-Oct-20	0.57		0.47		0.29		0.28		0.049	U	0.28	0.3	
		19-Jan-21	0.32		0.23		0.049	U	0.11		0.1	U	0.049	0.049	
		15-Apr-21	0.049	U	0.2		0.092	U	0.1	U	0.096	U	0.098	0.049	
		21-Jul-21	0.1		0.23		0.24		0.13		0.29		0.29	0.072	
		20-Oct-21	0.092		0.14		0.13		0.14		0.19		0.15	0.088	
		31-Jan-22	0.34		0.29		0.16		0.2		0.15		0.18	0.057	
		7-Apr-22	1.3		0.62		0.11		0.12		0.13		0.098	0.086	
		28-Jul-22	0.15		0.17		0.16		0.16		0.18		0.1	0.11	
		18-Oct-22	0.15		0.51		0.09		0.12		0.13		0.12	0.061	
		24-Jan-23	0.6		0.16		0.14		0.19		0.12		0.14	0.061	
		19-Apr-23	0.26		0.08		0.053		0.055		0.19		0.053	0.057	
		18-Jul-23	0.082		0.13		0.074		0.09		0.094		0.092	0.084	
		25-Oct-23	1.6		0.23		0.14		0.19		0.2		0.72	0.098	
		9-Jan-24	0.64		0.28		0.24		0.36		0.31		0.17	0.076	
		25-Apr-24	0.24		0.2		0.057		0.1		0.092		0.11	0.061	
		4-Sep-24	1.5		0.41		0.18		0.22		0.26		0.27	0.11	
		15-Oct-24	0.913		0.977		0.444		0.493		0.23		0.264	0.332	
		22-Nov-24													

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual		
Chloromethane	14.0	10-Jan-18	1.10		1.10		0.99		1.10		1.20		1.30		1.20		1.30						0.98
		11-Apr-18	1.60		1.50		1.30		1.30		1.50		1.80		1.50		1.70						1.3
		27-Jul-18	1.4		1.2		1		1.3		1.4		1.3		1.6		1.9						1.1
		24-Oct-18	0.99		1		0.94		1.1		1.1		1.4		1.1		1.1						0.95
		16-Jan-19	1.4		1.0		0.93		1		1		1.1		1.1		1						1.3
		12-Apr-19	1.3 ^V		1.2 ^V		1.4 ^V		1.3 ^V		1.2 ^V		1.3 ^V		1.3 ^V		1.6 ^V						1.2 ^V
		29-Jul-19	0.083	U	0.1	U	0.98		1.1		0.083	U	0.083	U	0.083	U	0.083	U		U			1.2
		29-Oct-19	NS		1.1		0.94		0.083	U	0.083		0.083	U	0.99		NS						1
		1-Nov-19	0.083	U	NS		NS		NS		NS		NS		NS		1.1						NS
		21-Jan-20	0.08	U	0.08	U	1.20		1.20		0.08	U	1.60		0.08	U	1.30						1.10
		22-Apr-20	1		1.0		1.1		1		1.1		1.1		1.2		1.1						1
		23-Jul-20	1.3		0.1	U	1.1		1.3		0.083	U	1.2		0.083	U	0.083	U		U			1.1
		29-Oct-20	0.083	U	0.1	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U		U	U		0.083
		19-Jan-21	1		1	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U		U	U		1
		15-Apr-21	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U		U	U		0.083
		21-Jul-21	1.1		1		1		1		1.4		1.1		1.3		1						1.1
		20-Oct-21	1.1		1.2		1.1		1.2		1.2		1.1		1.1		1.2						1.1
		31-Jan-22	1		0.99		0.96		0.95		0.97		0.95		1		0.98						0.99
		7-Apr-22	1.1		1.1		1		1.1		1.1		1.1		1.2		1.1						1.1
		28-Jul-22	1.2		1.3		1.2		1.2		1.3		1.2		0.87		1.1						1.3
		18-Oct-22	0.92		1		1		0.96		0.9		1.1		0.98		1.3						0.88
		24-Jan-23	1.3		1.2		1.2		1.2		1.3		1.3		1.3		1.4						0.88
		19-Apr-23	1		1		1.1		1		1.1		1		1		1.2						1
		18-Jul-23	1.1		1.1		1.1		1.1		1.2		1.1		1.5		1.7						1.7
		25-Oct-23	1.3		1.1		1.1		1.3		1.4		1.4		1.4		1.8						1.3
		9-Jan-24	0.91		0.92		0.9		0.93		0.97		1.1		0.91		0.93						0.91
		25-Apr-24	1.1		1		1.2		1.1		1.2		1.3		1.2		1.3				1.2		1.1
		4-Sep-24	1.3		1.2		1.2		1.2		1.4		1.6		1.2		1.6				1.3		0.73
		15-Oct-24	1.35		0.971		0.892		0.929		1.06		1.18		0.878		1.15				1.16		0.89
		22-Nov-24																		0.973			
		Dibromochloromethane	None	10-Jan-18	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U			
11-Apr-18	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.170	U	0.085	U	0.085	U					0.85 ^D
27-Jul-18	0.085			U	0.085	U	0.085	U	0.085	U	0.13	U	0.13	U	0.085	U	0.085	U					0.085
24-Oct-18	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
16-Jan-19	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
12-Apr-19	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
29-Jul-19	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
29-Oct-19	NS				0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	NS						0.085
1-Nov-19	0.085			U	NS		NS		NS		NS		NS		NS		0.085	U					NS
21-Jan-20	0.09			U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U					0.09
22-Apr-20	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
23-Jul-20	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
29-Oct-20	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
19-Jan-21	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
15-Apr-21	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
21-Jul-21	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
20-Oct-21	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
31-Jan-22	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
7-Apr-22	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
28-Jul-22	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
18-Oct-22	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
24-Jan-23	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
19-Apr-23	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
18-Jul-23	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
25-Oct-23	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
9-Jan-24	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U					0.085
25-Apr-24	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U			0.085	U	0.085
4-Sep-24	0.085			U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U			0.085	U	0.085
15-Oct-24	0.17			U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U			0.17	U	0.17
22-Nov-24																				0.17	U		
1,2-Dibromoethane (EDB)	0.0028/0.15	10-Jan-18	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U					0.077
		11-Apr-18	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.150	U	0.077	U	0.077	U					0.77 ^D
		27-Jul-18	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.12	U	0.12	U	0.077	U					0.077
		24-Oct-18	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U					0.077
		16-Jan-19	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U					0.077
		12-Apr-19	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U	0.077	U					0.077
		29-Jul-19	0.077	U																			

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)				
			Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual	Room	Qual			
1,2-Dichlorobenzene	73.0	10-Jan-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		11-Apr-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.6 ^D	U		
		27-Jul-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.18	U	0.18	U	0.12	U	0.12	U		0.12	U		
		24-Oct-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		16-Jan-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		12-Apr-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Jul-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Oct-19	NS	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	NS	U		0.12	U		
		1-Nov-19	0.12	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	0.12	U		NS	U		
		21-Jan-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		22-Apr-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		23-Jul-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Oct-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		19-Jan-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		15-Apr-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		21-Jul-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		20-Oct-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		31-Jan-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		7-Apr-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		28-Jul-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		18-Oct-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		24-Jan-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		19-Apr-23	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U	0.12 ^V	U		0.12 ^V	U		
		18-Jul-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U					
		25-Oct-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U			0.12	U	
		9-Jan-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U			0.12	U	
		25-Apr-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U
		4-Sep-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U
		15-Oct-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U
		22-Nov-24																		0.12	U				
1,3-Dichlorobenzene	73.0	10-Jan-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		11-Apr-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.6 ^D	U		
		27-Jul-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.18	U	0.18	U	0.12	U	0.12	U		0.12	U		
		24-Oct-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		16-Jan-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		12-Apr-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Jul-19	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Oct-19	NS	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	NS	U		0.12	U		
		1-Nov-19	0.12	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	0.12	U		NS	U		
		21-Jan-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		22-Apr-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		23-Jul-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		29-Oct-20	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		19-Jan-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		15-Apr-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		21-Jul-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		20-Oct-21	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		31-Jan-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		7-Apr-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		28-Jul-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		18-Oct-22	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		24-Jan-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		19-Apr-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		18-Jul-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		25-Oct-23	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U		
		9-Jan-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U			0.12	U	
		25-Apr-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U
		4-Sep-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U	0.16	U
		15-Oct-24	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U
		22-Nov-24																		0.12	U				
1,4-Dichlorobenzene	24.0	10-Jan-18	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.13		0.12	U	0.12	U	0.12	U		0.12	U		
		11-Apr-18	0.21	</																					

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	
Dichlorodifluoromethane	91.0	10-Jan-18	0.67		0.69		0.65		0.69		0.69		0.72		0.69		0.70						0.65
		11-Apr-18	1.1		1.1		1.2		1.0		1.30		1.1		1.4		1.1						2.2
		27-Jul-18	0.8		0.78		0.78		0.97		1		0.96		0.99		0.93						0.79
		24-Oct-18	0.66		0.61		0.62		0.68		0.63		0.67		0.75		0.69						0.6
		16-Jan-19	0.89		0.74		0.73		0.76		0.83		0.84		0.85		0.82						0.94
		12-Apr-19	0.84 ^{LV}		0.75 ^{LV}		0.95		0.89 ^{LV}		0.81 ^{LV}		0.77 ^{LV}		0.89 ^{LV}		0.88 ^{LV}						0.81 ^{LV}
		29-Jul-19	1.5		1.5		1.2		1.4		0.099	U	1.5		1.3		0.099	U					1.40
		29-Oct-19	NS		1.4		1.4		1.4		0.099	U	0.099		1.4		NS						1.40
		1-Nov-19	0.099	U	NS		NS		NS		NS	U	NS		NS		1.4						NS
		21-Jan-20	2.3		2.60		2.40		2.40		2.60		2.50		2.40		2.30						2.50
		22-Apr-20	1.2		1.2		1.2		1.2		1.2		1.2		1.2		1.2						1.20
		23-Jul-20	1.2		1.1		1.1		1.2		1.2		1.1		1.2		1.2						1.20
		29-Oct-20	0.099	U	0.099	U	0.099	U	2.7		0.099		0.099	U	0.099	U	0.099	U					2.70
		19-Jan-21	1		1.1		1		0.89		1		0.98		0.93		0.96						0.94
		15-Apr-21	1.8		1.8		1.9		1.8		1.8		1.7		1.8		1.7						1.80
		21-Jul-21	1.9		2		1.9		1.9		1.8		2		2		2						2.10
		20-Oct-21	2.6		2.5		2.4		2.5		2.5		2.4		2.6		2.6						2.50
		31-Jan-22	0.86		0.78		0.87		0.79		0.84		0.73		0.88		0.88						0.84
		7-Apr-22	2.2		2.2		2.2		2.1		2.2		2.3		2.2		2.2						2.2
		28-Jul-22	0.79		0.88		0.89		0.75		0.78		0.78		0.46		0.58						0.86
		18-Oct-22	2.2		2.1		2.7		2.3		2.3		2.4		2.2		2.2						2.3
		24-Jan-23	2.6		2.8		2.6		2.6		2.6		2.6		2.8		2.5						2.3
		19-Apr-23	0.65		0.64		0.66		0.71		0.65		0.73		0.71		0.64						0.75
		18-Jul-23	0.59		0.58		0.63		0.59		0.6		0.54		0.59		0.61						0.55
		25-Oct-23	0.91		0.91		0.95		1.2		1.3		1.1		1.1		1.3						1.3
		9-Jan-24	1.1		0.97		0.98		1.1		1.1		1		1.1		1						0.94
		25-Apr-24	1.6		1.7		1.7		1.7		1.6		1.6		1.6		1.6				1.6		1.6
		4-Sep-24	1.1		1.1		1.2		1.1		1.2		1.2		1.2		1.1				1.1		0.62
		15-Oct-24	2.25		2.28		2.41		2.43		2.48		2.47		2.42		2.4				2.47		2.19
		22-Nov-24															2.38						
1,1-Dichloroethane	77.0	10-Jan-18	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		11-Apr-18	0.040	U	0.040	U	0.040	U	0.040	U	0.040	U	0.081	U	0.040	U	0.040	U					0.4 ^D
		27-Jul-18	0.040	U	0.040	U	0.040	U	0.040	U	0.061	U	0.061	U	0.040	U	0.040	U					0.040
		24-Oct-18	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		16-Jan-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		12-Apr-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		29-Jul-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		29-Oct-19	NS		0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	NS						0.040
		1-Nov-19	0.04	U	NS		NS		NS		NS		NS		NS		0.04	U					NS
		21-Jan-20	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		22-Apr-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U					0.040
		23-Jul-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		29-Oct-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		19-Jan-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		15-Apr-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		21-Jul-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		20-Oct-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		31-Jan-22	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		7-Apr-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		28-Jul-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		18-Oct-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		24-Jan-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		19-Apr-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		18-Jul-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		25-Oct-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		9-Jan-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		25-Apr-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	0.04
		4-Sep-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	0.04
		15-Oct-24	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U			0.079	U	0.079
		22-Nov-24																		0.079	U		
1,2-Dichloroethane	0.07/0.08	10-Jan-18	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U					0.04
		11-Apr-18	0.040	U	0.040	U	0.040	U	0.071		0.040	U	0.081	U	0.040	U	0.040	U					0.4 ^D
		27-Jul-18	0.040	U	0.040	U	0.040	U	0.040	U	0.061	U	0.061	U	0.040	U	0.040	U					0.040
		24-Oct-18	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		16-Jan-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		12-Apr-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		29-Jul-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U					0.040
		29-Oct-19	NS		0.0																		

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	
1,1-Dichloroethylene	10.0	10-Jan-18	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U		0.04	U
		11-Apr-18	0.040	U	0.040	U	0.040	U	0.040	U	0.040	U	0.079	U	0.040	U	0.040	U			0.4 ^D	U	
		27-Jul-18	0.040	U	0.040	U	0.040	U	0.040	U	0.059	U	0.059	U	0.040	U	0.040	U			0.040	U	
		24-Oct-18	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		16-Jan-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		12-Apr-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		29-Jul-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		29-Oct-19	NS		0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	NS				0.040	U	
		1-Nov-19	0.04	U	NS		NS		NS		NS		NS		NS		0.04	U			NS		
		21-Jan-20	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		22-Apr-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		23-Jul-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		29-Oct-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		19-Jan-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		15-Apr-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		21-Jul-21	0.13		0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U			0.079	U	
		20-Oct-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		31-Jan-22	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		7-Apr-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		28-Jul-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		18-Oct-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		24-Jan-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		19-Apr-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		18-Jul-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		25-Oct-23	0.079		0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		9-Jan-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		25-Apr-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.043		0.04	U	0.04	U	0.04	U	
		4-Sep-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U		0.04	0.04	U	
		15-Oct-24	0.163		0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	
		22-Nov-24																	0.079	U			
cis-1,2-Dichloroethene*	18.0	10-Jan-18	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U		0.04	U
		11-Apr-18	0.040	U	0.040	U	0.040	U	0.040	U	0.040	U	0.079	U	0.040	U	0.040	U			0.40 ^D	U	
		27-Jul-18	0.040	U	0.040	U	0.040	U	0.040	U	0.059	U	0.059	U	0.040	U	0.040	U			0.040	U	
		24-Oct-18	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		16-Jan-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		12-Apr-19	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040	U			0.040	U	
		29-Jul-19	0.054		0.040	U	0.040	U	0.040	U	0.057		0.04	U	0.040	U	0.056				0.040	U	
		29-Oct-19	NS		0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	NS				0.040	U	
		1-Nov-19	0.04	U	NS		NS		NS		NS		NS		NS		0.04	U			NS		
		21-Jan-20	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		22-Apr-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		23-Jul-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		29-Oct-20	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		19-Jan-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		15-Apr-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		21-Jul-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		20-Oct-21	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		31-Jan-22	0.04	U	0.04	U	0.040	U	0.040	U	0.04	U	0.04	U	0.04	U	0.040	U			0.040	U	
		7-Apr-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		28-Jul-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		18-Oct-22	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		24-Jan-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		19-Apr-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		18-Jul-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		25-Oct-23	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		9-Jan-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U			0.04	U	
		25-Apr-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	
		4-Sep-24	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	
		15-Oct-24	0.44		0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	
		22-Nov-24																	0.079	U			
trans-1,2-Dichloroethene*	37.0	10-Jan-18	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U		0.04	U
		11-Apr-18	0.040	U	0.040	U	0.040	U	0.040	U	0.040	U	0.079	U	0.040	U	0.040	U			0.4 ^D	U	
		27-Jul-18	0.040	U	0.040	U	0.040	U	0.040	U	0.059	U	0.059	U	0.040	U	0.040	U			0.040	U	
		24-Oct-18	0.040	U	0.040	U	0.040	U	0.040	U	0.04	U	0.04	U	0.040	U	0.040						

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

[illegible]

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDE M-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
				Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual	
Ethylbenzene	53.0	10-Jan-18	0.29		0.56		0.47		0.53		0.24		0.25		0.58		0.30					0.087	U
		11-Apr-18	0.26		0.20		0.17		0.19		0.15		0.16		0.14		0.19					0.43 ^D	U
		27-Jul-18	0.12		0.16		0.17		0.17		0.13	U	1.1		0.17		0.15					0.11	U
		24-Oct-18	0.43		0.15		0.19		0.2		0.13		0.22		0.11		0.087	U				0.11	U
		16-Jan-19	0.26		0.2		0.2		0.19		0.21		0.24		0.22		0.13					0.094	U
		12-Apr-19	0.18		0.1	0.087		0.11	U	0.097		0.092		0.12		0.12		0.12				0.099	U
		29-Jul-19	0.29		0.14		0.13		0.17		0.19		0.22		0.24		0.14					0.14	U
		29-Oct-19	NS		0.11		0.13		0.13		0.13		0.14		0.14		NS					0.11	U
		1-Nov-19	0.17		NS		NS		NS		NS		NS		NS		0.21					NS	U
		21-Jan-20	0.19		0.15		0.18		0.16		0.17		0.19		0.15		0.12					0.14	U
		22-Apr-20	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U		0.087	U
		23-Jul-20	0.14		0.09		0.11		0.1		0.13		0.1		0.15		0.14					0.087	U
		29-Oct-20	0.39		0.39		0.34		0.44		0.45		0.44		0.5		0.59					0.44	U
		19-Jan-21	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U		0.087	U
		15-Apr-21	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U				0.087	U
		21-Jul-21	0.19		0.25		0.23		0.16		0.34		0.32		0.34		0.31					0.15	U
		20-Oct-21	0.51		0.096		0.12		0.12		0.12		0.13		0.12		0.11					0.087	U
		31-Jan-22	0.5		0.52		0.41		0.52		0.44		0.53		0.46		0.5					0.087	U
		7-Apr-22	0.17		0.15		0.16		0.15		0.16		0.14		0.15		0.14					0.1	U
		28-Jul-22	0.16		0.14		0.16		0.16		0.14		0.19		0.11		0.18					0.11	U
		18-Oct-22	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.2	U	0.17	U	0.21					0.17	U
		24-Jan-23	0.16		0.11		0.11		0.15		0.12		0.14		0.19		0.19					0.087	U
		19-Apr-23	0.35		0.087		0.15		0.23		0.17		0.11		0.087	U	0.18					0.15	U
		18-Jul-23	0.15		0.16		0.17		0.17		0.22		0.31		0.21		0.32					0.27	U
		25-Oct-23	2.9		0.33		0.28		0.29		0.31		0.36		1.5		0.31					0.097	U
		9-Jan-24	0.38		0.28		0.28		0.43		0.5		0.48		0.25		0.55					0.087	U
		25-Apr-24	3.3		0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	0.087	U
		4-Sep-24	0.49		0.42		0.39		0.47		0.54		0.5		0.43		0.56					0.6	U
15-Oct-24	0.087		0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.091					0.087	0.478		
22-Nov-24																				0.187			
Isopropylbenzene	120.0	10-Jan-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		11-Apr-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				1.2 ^D	U
		27-Jul-18	0.25	U	0.25	U	0.25	U	0.25	U	0.37	U	0.79		0.25	U	0.25	U				0.25	U
		24-Oct-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		16-Jan-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		12-Apr-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		29-Jul-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		29-Oct-19	NS		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NS					0.25	U
		1-Nov-19	0.25	U	NS		NS		NS		NS		NS		NS		0.25	U				NS	U
		21-Jan-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		22-Apr-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		23-Jul-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		29-Oct-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		19-Jan-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		15-Apr-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		21-Jul-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		20-Oct-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		31-Jan-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		7-Apr-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		28-Jul-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		18-Oct-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		24-Jan-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		19-Apr-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		18-Jul-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		25-Oct-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		9-Jan-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		25-Apr-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		4-Sep-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U			0.25	0.25	U
15-Oct-24	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U	0.983	U		0.983	0.983	U	
22-Nov-24																				0.983	U		
p-Isopropyltoluene	67.0	10-Jan-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.27		0.25	U	0.25	U				0.25	U
		11-Apr-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				1.3 ^D	U
		27-Jul-18	0.25	U	0.25	U	0.25	U	0.25	U	0.38	U	1.1		0.25	U	0.25	U				0.25	U
		24-Oct-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		16-Jan-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		12-Apr-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		29-Jul-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		29-Oct-19	NS		0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	NS					0.25	U
		1-Nov-19	0.25	U	NS		NS		NS		NS		NS		NS		0.25	U				NS	U
		21-Jan-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		22-Apr-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		23-Jul-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25 ^H	U	0.25	U	0.25	U				0.25	U
		29-Oct-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		19-Jan-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		15-Apr-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U				0.25	U
		21-Jul-21	0.5	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.50	U	0.50	U				0.50	U
		20-Oct-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25												

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)			
			Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual	Conc	Qual		
Methyl tert butyl ether (MTBE)	160.0	10-Jan-18	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		11-Apr-18	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.36 ^D	U
		27-Jul-18	0.072	U	0.072	U	0.072	U	0.072	U	0.11	U	0.95	U	0.072	U	0.072	U	0.072	U			0.072	U
		24-Oct-18	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		16-Jan-19	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		12-Apr-19	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		29-Jul-19	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		29-Oct-19	NS		0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	NS		NS				0.072	U
		1-Nov-19	0.072	U	NS		NS		NS		NS		NS		NS		NS		0.072	U			NS	
		21-Jan-20	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U	0.07	U			0.07	U
		22-Apr-20	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		23-Jul-20	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		29-Oct-20	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		19-Jan-21	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		15-Apr-21	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		21-Jul-21	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		20-Oct-21	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		31-Jan-22	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		7-Apr-22	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		28-Jul-22	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		18-Oct-22	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U			0.14	U
		24-Jan-23	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		19-Apr-23	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		18-Jul-23	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		25-Oct-23	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		9-Jan-24	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		25-Apr-24	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.13	U	0.072	U	0.072	U	0.072	U	0.072	U
		4-Sep-24	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U	0.072	U			0.072	U
		15-Oct-24	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U	0.721	U			0.721	U
		22-Nov-24																						
Methylene chloride	3.0	10-Jan-18	0.69	U	0.69		0.69		0.76		1.0		0.69	U	0.74		0.70						0.69	U
		11-Apr-18	1.30		0.70		0.92		0.90		4.8		0.69	U	0.69	U	1.00						3.5 ^D	U
		27-Jul-18	1.2		1.3		0.85		0.69	U	1	U	1	U	0.69	U	0.9						0.69	U
		24-Oct-18	0.69		0.69	U	0.69	U	0.69	U	1.3		0.69	U	0.69	U	0.69	U		U			0.69	U
		16-Jan-19	0.69	U	0.69	U	0.69	U	0.69	U	0.87		0.69	U	0.69	U	0.69	U	0.72				0.69	U
		12-Apr-19	1.5		1.4		2		1.6		1.2		1.1		1.5		1.3						1.2	
		29-Jul-19	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			5.4	
		29-Oct-19	NS		0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	NS		NS				0.69	U
		1-Nov-19	0.69	U	NS		NS		NS		NS		NS		NS		NS		0.69	U			NS	
		21-Jan-20	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.89	U	0.69	U	0.69	U			0.89	U
		22-Apr-20	4.1		44		1.9		4.7		5		3.8		7		4.2						2.4	
		23-Jul-20	0.69	U	1.4		1.3		2.1		0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		29-Oct-20	2.9		0.69	U	0.79		0.75		0.93	U	0.88	U	1.2		1.1	U					0.69	U
		19-Jan-21	0.94		0.85		0.69	U	0.7		0.76	U	0.71		1.1		2						1	
		15-Apr-21	1.2		0.92	U	0.69	U	1.1		0.69	U	0.69	U	0.78		0.69	U					0.69	U
		21-Jul-21	0.72		0.84		0.99		0.69	U	0.81		0.72		0.83		0.69	U					0.69	U
		20-Oct-21	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		31-Jan-22	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		7-Apr-22	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		28-Jul-22	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	1.5		0.69	U	0.69	U	0.69	U			0.69	U
		18-Oct-22	0.69	U	0.74		1.2		0.86		0.69	U	0.84		0.72		1.1						0.69	U
		24-Jan-23	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	1.3						0.69	U
		19-Apr-23	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		18-Jul-23	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		25-Oct-23	5		0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	2.6		0.69	U					0.69	U
		9-Jan-24	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		25-Apr-24	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U
		4-Sep-24	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U			0.69	U
		15-Oct-24	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U	1.74	U			1.74	U
		22-Nov-24																						
4-Methyl-2-pentanone	37.0	10-Jan-18	0.082	U	0.09		0.820		0.082		0													

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)			
			Room	Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual				
Styrene	52.0	10-Jan-18	0.21		0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U		0.085	U	
		11-Apr-18	1.3 ¹		0.085 ¹	U	0.085 ¹	U	0.085 ¹	U	0.085 ¹	U	0.085	U	0.085 ¹	U	0.085 ¹	U	0.085 ¹	U		0.43 ^D	U	
		27-Jul-18	0.085	U	0.085	U	0.085	U	0.085	U	0.13	U	0.13	U	0.085	U	0.085	U	0.085	U		0.085	U	
		24-Oct-18	0.370		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.26	U	0.085	U	0.085	U		0.085	U	
		16-Jan-19	0.25 ^W		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.085	U	
		12-Apr-19	0.77		0.085	U	0.085	U	0.100	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.085	U
		29-Jul-19	0.34		0.085	U	0.085	U	0.085	U	0.1	0.085	U	0.085	U	0.150	0.085	U	0.085	U		0.085	U	
		29-Oct-19	NS		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	NS			0.085	U	
		1-Nov-19	0.6		NS		NS		NS		NS		NS		NS		NS		0.085	U		NS		
		21-Jan-20	0.21		0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U		0.09	U	
		22-Apr-20	0.11		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.085	U	
		23-Jul-20	0.71		0.085	U	0.085	U	0.085	U	0.085	U	0.099	0.085	U	0.085	U	0.190	0.100			0.085	U	
		29-Oct-20	0.36		0.085	U	0.099	0.089		0.12	0.085	U	0.085	U	0.085	U	0.085	U	0.130			0.130	U	
		19-Jan-21	0.17		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.085	U	
		15-Apr-21	0.085	U	0.13		0.085	U	0.085	U	0.085	U	0.12	0.092	0.085	U	0.085	U	0.200			0.085	U	
		21-Jul-21	0.23		0.085	U	0.085	U	0.085	U	0.085	U	0.15	0.14	0.140		0.140	0.120				0.085	U	
		20-Oct-21	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.085	U	
		31-Jan-22	0.2		0.14		0.085	U	0.110	0.085	U	0.095	0.100		0.100	0.120						0.085	U	
		7-Apr-22	0.34		0.1		0.085	U	0.085	U	0.09	0.085	U	0.085	U	0.085	U	0.085	U			0.085	U	
		28-Jul-22	0.12		0.085	U	0.085	U	0.085	U	0.085	U	0.13		0.085	U	0.19					0.085	U	
		18-Oct-22	0.13 ¹		0.085	U	0.085	U	0.085	U	0.085	U	0.16 ¹	0.095 ¹	0.39 ¹							0.085	U	
		24-Jan-23	0.39		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.17			0.085	U	
		19-Apr-23	0.32		0.085	U	0.085	U	0.094	0.085	U	0.085	U	0.085	U	0.085	U	0.14				0.085	U	
		18-Jul-23	0.27		0.085	U	0.085	U	0.13		0.24	0.35	0.27		0.27	0.49						0.35		
		25-Oct-23	4.2		0.22		0.17	0.097		0.18	0.32	4.4			0.22							0.085	U	
		9-Jan-24	0.35		0.13		0.085	U	0.12		0.25	0.16	0.085	U	0.16		0.085	U	0.16			0.085	U	
		25-Apr-24	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U
		4-Sep-24	0.26		0.094		0.085	U	0.11		0.16	0.14	0.13		0.29							0.21		
		15-Oct-24	0.094		0.085		0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U		0.183		
		22-Nov-24																		0.128	U			
1,1,1,2-Tetrachloroethane	0.082/0.14	10-Jan-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		11-Apr-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		1.2 ^D	U	
		27-Jul-18	0.25	U	0.25	U	0.25	U	0.25	U	0.37	U	0.37	U	0.25	U	0.25	U	0.25	U		0.25	U	
		24-Oct-18	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		16-Jan-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		12-Apr-19	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		29-Jul-19	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U		0.25 ^L	U	
		29-Oct-19	NS		0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	0.25 ^L	U	NS					0.25 ^L	U	
		1-Nov-19	0.25 ^L	U	NS		NS		NS		NS		NS		NS		0.25 ^L	U				NS		
		21-Jan-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		22-Apr-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		23-Jul-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		29-Oct-20	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		19-Jan-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		15-Apr-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		21-Jul-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		20-Oct-21	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		31-Jan-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		7-Apr-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		28-Jul-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		18-Oct-22	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		24-Jan-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		19-Apr-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		18-Jul-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		25-Oct-23	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		9-Jan-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		25-Apr-24	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U	0.25 ^V	U
		4-Sep-24	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U		0.25	U	
		15-Oct-24	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U	0.137	U		0.137	U	
		22-Nov-24																		0.137	U			

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
				Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual	
Tetrachloroethene*	5.0	10-Jan-18	0.27		0.59		0.45		0.50		0.20		0.23		0.61		0.29					0.068	U
		11-Apr-18	0.21		0.14	U	0.14	U	0.14	U	0.14	U	0.16	U	0.14	U	0.14	U				0.68 ^D	U
		27-Jul-18	0.14	U	0.18		0.16		0.24		0.26		0.2	U	0.17	U	0.14	U				0.14	U
		24-Oct-18	0.26		0.22		0.22		0.27		0.2		0.23		0.14	U	0.14	U				0.14	U
		16-Jan-19	0.22		0.15		0.14	U	0.14	U	0.16		0.17		0.18	U	0.14	U				0.27	
		12-Apr-19	0.17		0.14		0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		29-Jul-19	0.23		0.19		0.14		0.18		0.21		0.22		0.2		0.17					0.17	
		29-Oct-19	NS		0.2		0.2		0.2		0.23		0.28		0.14	U	NS					0.18	
		1-Nov-19	0.16		NS		NS		NS		NS		NS		NS		0.14	U				NS	
		21-Jan-20	0.14	U	0.14	U	0.14	U	0.14	U	0.18		0.14	U	0.16	U	0.14	U				0.14	U
		22-Apr-20	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		23-Jul-20	0.16		0.15		0.14	U	0.14		0.14	U	0.16	U	0.14	U	0.14	U				0.14	U
		29-Oct-20	0.44		0.33		0.3		0.34		0.29	U	0.32	U	0.33		0.39					1.7	
		19-Jan-21	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		15-Apr-21	0.2		0.59		0.5		0.36		0.34		0.26		0.3		0.36	U				0.14	
		21-Jul-21	0.14	U	0.41		0.43		0.14		0.57		0.48		0.61		0.37					0.14	U
		20-Oct-21	0.14	U	0.14	U	0.14	U	0.2		0.14		0.14	U	0.14	U	0.14	U				0.14	U
		31-Jan-22	0.53		0.54		0.42		0.47		0.50		0.44		0.31		0.37					0.14	U
		7-Apr-22	0.19		0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		28-Jul-22	0.24 ^K		0.27 ^K		0.33 ^K		0.26 ^K		0.14	U	0.27 ^K		0.24 ^K		0.3 ^K					0.55	U
		18-Oct-22	0.14	U	0.15		0.21		0.14	U	0.14	U	0.88		0.18		0.14					0.14	U
		24-Jan-23	0.29		0.21		0.14		0.17		0.14	U	0.22		0.15		0.33					0.14	U
		19-Apr-23	0.14	U	0.17		0.14	U	0.19		0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		18-Jul-23	0.17		0.19		0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U				0.14	U
		25-Oct-23	3.7		0.58		0.58		0.66		0.66		0.6		2		0.59					0.15	
		9-Jan-24	1.3		1.2		1.2		1.1		0.71		1.3		2.7		0.96					0.14	U
		25-Apr-24	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U		0.14	U	0.14	U
		4-Sep-24	0.5		0.39		0.35		0.36		0.31		0.41		0.39		0.29					0.14	
		15-Oct-24	0.136	U	0.142		0.136	U	0.136	U	0.136	U	0.136	U	0.136	U	0.136	U		0.136	U	0.136	U
		22-Nov-24																		0.136	U		0.217
Toluene	210.0	10-Jan-18	1.50		2.10		1.90		2.0		1.0		1.10		2.40		1.50					0.42	
		11-Apr-18	1.70		1.40		1.20		1.3		1.0		1.40		1.00		1.40					0.78 ^D	
		27-Jul-18	1.2		1.3		0.71		1.1		0.81		1.7		1		0.99					0.69	
		24-Oct-18	1.8		0.76		0.76		1.6		1		1.5		0.6		0.49					0.56	
		16-Jan-19	1.4		1.2		1.1		1.2		1.2		1.3		1.3		0.89					0.66	
		12-Apr-19	0.82		0.48		0.45		0.57		0.5		0.54		0.51		0.63					0.59	
		29-Jul-19	0.88		0.43		0.4		0.48		0.5		0.61		0.75		0.39					0.38	
		29-Oct-19	NS		0.72		0.64		0.78		0.8		0.8		1		NS					0.72	
		1-Nov-19	1.1		NS		NS		NS		NS		NS		NS		1.2					NS	
		21-Jan-20	1.3		0.91		0.95		0.95		0.97		1.00		0.96		0.67					0.73	
		22-Apr-20	0.18		0.14		0.15		0.19		0.1		0.16		0.21		0.18					0.13	
		23-Jul-20	0.89		0.65		0.62		0.64		0.9		0.63		0.96		0.75					0.52	
		29-Oct-20	2.5		2.2		1.9		1.7		2.3		2.7		2.5		3					2.5	
		19-Jan-21	0.38		0.34		0.33		0.37		0.4		0.36		0.37		0.39					0.52	
		15-Apr-21	0.35		0.36		0.35		0.37		0.3		0.36		0.33		0.49					0.26	
		21-Jul-21	1.1		1.6		1.6		0.75		2.3		2		2.2		1.9					0.62	
		20-Oct-21	1.9		0.79		0.85		0.94		0.9		0.86		0.86		0.7					0.48	
		31-Jan-22	3.1		3.1		2.7		3.1		2.7		3.3		2.9		3					0.26	
		7-Apr-22	0.83		0.76		0.79		0.7		0.7		0.69		0.78		0.72					0.56	
		28-Jul-22	1.2		1.8		1.1		1.1		0.93		1.3		0.74		1					0.59	
		18-Oct-22	0.46		0.78		0.73		0.84		0.8		1.2		0.9		1.2					0.46	
		24-Jan-23	0.89		0.84		0.63		0.75		0.55		0.8		1.1		2.4					0.31	
		19-Apr-23	0.58		0.26		0.45		0.42		0.73		0.53		0.29		0.87					0.49	
		18-Jul-23	0.89		1.1		0.87		0.83		1.3		1.3		1.1		1.4					1.7	
		25-Oct-23	50		3.1		2.5		2.2		2.3		2.8		23		2.4					0.5	
		9-Jan-24	3.1		2.7		3		3.2		3.5		3.5		3.2		3.7					0.3	
		25-Apr-24	12		0.25		0.24		0.27		0.28		0.55		0.21		0.32		0.25			0.28	
		4-Sep-24	4.5		2		2		2.5		3.1		2.7		1.7		3					1.6	
		15-Oct-24	0.935		0.829		0.697		0.735		0.852		0.867		0.712		0.908					1.11	
		22-Nov-24																	1.03				
1,1,1-Trichloroethane*	500.0	10-Jan-18	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U	0.055 ^L	U				0.055 ^L	U
		11-Apr-18	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.110	U	0.055	U	0.055	U				0.55 ^D	U
		27-Jul-18	0.055	U	0.055	U	0.055	U	0.055	U	0.082	U	0.082	U	0.055	U	0.055	U				0.055	U
		24-Oct-18	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U				0.055	U
		16-Jan-19	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U				0.055	U
		12-Apr-19	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U				0.055	U
		29-Jul-19	0.070		0.063		0.055		0.055		0.057		0.055	U	0.068		0.072					0.074	
		29-Oct-19	NS		0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	NS					0.055	U
		1-Nov-19	0.055	U	NS		NS		NS		NS		NS		NS		0.055	U				NS	
		21-Jan-20	0.06	U	0.06	U	0.06	U	0.06	U	0.06.												

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)				
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual				
1,1,2-Trichloroethane	2.2	10-Jan-18	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U		0.055	U		
		11-Apr-18	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.110	U	0.055	U	0.055	U			0.55 ^D	U			
		27-Jul-18	0.055	U	0.055	U	0.055	U	0.055	U	0.082	U	0.082	U	0.055	U	0.055	U			0.055	U			
		24-Oct-18	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U			
		16-Jan-19	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U			
		12-Apr-19	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U			
		29-Jul-19	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U			
		29-Oct-19	NS		0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	NS				0.055	U			
		1-Nov-19	0.055	U	NS		NS		NS		NS		NS		NS		NS	0.055	U			NS			
		21-Jan-20	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U			0.06	U	
		22-Apr-20	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		23-Jul-20	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		29-Oct-20	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		19-Jan-21	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		15-Apr-21	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		21-Jul-21	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		20-Oct-21	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		31-Jan-22	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		7-Apr-22	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		28-Jul-22	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		18-Oct-22	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		24-Jan-23	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		19-Apr-23	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		18-Jul-23	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		25-Oct-23	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U			0.055	U	
		9-Jan-24	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U		0.055	U	0.055	U
		25-Apr-24	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U		0.055	U	0.055	U
4-Sep-24	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U	0.055	U		0.055	U	0.055	U		
15-Oct-24	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U	0.109	U		0.109	U	0.109	U		
22-Nov-24																		0.109	U						
Trichloroethene*	1.0	10-Jan-18	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		11-Apr-18	0.084	U	0.080	U	0.054	U	0.064	U	0.069	U	0.110	U	0.073	U	0.084	U				0.54 ^D	U		
		27-Jul-18	0.054	U	0.054	U	0.054	U	0.054	U	0.081	U	0.081	U	0.054	U	0.054	U				0.054	U		
		24-Oct-18	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		16-Jan-19	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		12-Apr-19	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		29-Jul-19	0.088	U	0.060	U	0.054	U	0.060	U	0.064	U	0.082	U	0.086	U	0.080	U				0.071	U		
		29-Oct-19	NS		0.088	U	0.080	U	0.054	U	0.084	U	0.08	U	0.054	U	NS					0.054	U		
		1-Nov-19	0.054	U	NS		NS		NS		NS		NS		NS		0.054	U				NS			
		21-Jan-20	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U				0.05	U		
		22-Apr-20	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		23-Jul-20	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		29-Oct-20	0.120	U	0.130	U	0.100	U	0.120	U	0.14	U	0.15	U	0.054	U	0.140	U				0.180	U		
		19-Jan-21	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		15-Apr-21	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		21-Jul-21	0.054	U	0.084	U	0.069	U	0.054	U	0.09	U	0.097	U	0.150	U	0.064	U				0.054	U		
		20-Oct-21	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		31-Jan-22	0.084	U	0.084	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		7-Apr-22	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		28-Jul-22	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		18-Oct-22	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		24-Jan-23	0.064	U	0.082	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		19-Apr-23	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		18-Jul-23	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U				0.054	U		
		25-Oct-23	0.140	U	0.054	U	0.084	U	0.082	U	0.088	U	0.17	U	0.056	U							0.054	U	
		9-Jan-24	0.054	U	0.054	U	0.054	U	0.069	U	0.067	U	0.086	U	0.054	U	0.08	U					0.054	U	
		25-Apr-24	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U	0.054	U		0.054	U	0.054	U	0.054	U
4-Sep-24	0.18	U	0.12	U	0.16	U	0.22	U	0.22	U	0.23	U	0.22	U	0.097	U		0.2	U		0.34	U			
15-Oct-24	0.107	U	0.107	U	0.107	U	0.107	U	0.107	U	0.107	U	0.107	U	0.107	U		0.107	U						

Summary of Indoor and Ambient Outdoor Air Sampling Data - Alvarez School - Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Room 116		Ambient Outdoor (AOA-1)		
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual		
1,2,4-Trimethylbenzene	9.3	10-Jan-18	0.33		0.56		0.51		0.59		0.27		0.29		0.61		0.46					0.098	U
		11-Apr-18	0.31		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.49 ^D	U
		27-Jul-18	0.098	U	0.098	U	0.098	U	0.098	U	0.15	U	0.15	U	0.098	U	0.098	U	U			0.098	U
		24-Oct-18	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		16-Jan-19	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		12-Apr-19	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		29-Jul-19	0.19		0.13		0.098	U	0.14		0.16		0.21		0.19		0.11					0.15	
		29-Oct-19	NS		0.098	U	0.14		0.15		0.15		0.19		0.17		NS					0.2	
		1-Nov-19	0.098	U	NS		NS		NS		NS		NS		NS		NS		0.43			NS	
		21-Jan-20	0.19		0.13		0.15		0.10	U	0.16		0.15		0.14		0.14		U			0.11	
		22-Apr-20	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		23-Jul-20	0.15		0.098	U	0.098	U	0.098	U	0.098	U	0.11		0.098	U	0.098	U	U			0.098	U
		29-Oct-20	0.4		0.38		0.31		0.31		0.37		0.32		0.098	U	0.57					0.48	
		19-Jan-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		15-Apr-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		21-Jul-21	0.19		0.23		0.31		0.12		0.29		0.3		0.35		0.25					0.098	U
		20-Oct-21	0.33		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		31-Jan-22	0.53		0.51		0.42		0.53		0.41		0.53		0.47		0.5					0.098	U
		7-Apr-22	0.19		0.16		0.16		0.17		0.15		0.14		0.16		0.17					0.098	U
		28-Jul-22	0.18		0.17		0.24		0.25		0.16		0.27		0.14		0.2					0.21	
		18-Oct-22	0.12		0.15		0.29		0.35		0.17		0.33		0.3		0.4					0.24	
		24-Jan-23	0.12		0.12		0.1		0.14		0.098	U	0.1		0.21		0.23					0.098	U
		19-Apr-23	0.44		0.14		0.14		0.39		0.19		0.12		0.098	U	0.21					0.1	
		18-Jul-23	0.15		0.1		0.17		0.21		0.2		0.26		0.3		0.24					0.24	
		25-Oct-23	1.7		0.35		0.35		0.32		0.34		0.52		1.2		0.42					0.11	
		9-Jan-24	0.44		0.31		0.33		0.52		0.57		0.52		0.27		0.54					0.098	U
		25-Apr-24	1.9		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	0.5	U
		4-Sep-24	0.43		0.32		0.34		0.42		0.49		0.46		0.29		0.6					0.68	
15-Oct-24	0.098	U	0.103		0.108		0.103		0.108		0.113		0.098	U	0.128					0.433			
22-Nov-24																							
1,3,5-Trimethylbenzene	9.3	10-Jan-18	0.098	U	0.18		0.14		0.18		0.098	U	0.098	U	0.19		0.10					0.098	U
		11-Apr-18	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.49 ^D	U
		27-Jul-18	0.098	U	0.098	U	0.098	U	0.098	U	0.15	U	0.97	U	0.098	U	0.098	U	U			0.098	U
		24-Oct-18	0.11		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		16-Jan-19	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		12-Apr-19	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		29-Jul-19	0.1		0.098	U	0.098	U	0.098	U	0.098	U	0.1		0.098	U	0.098	U	U			0.098	U
		29-Oct-19	NS		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	NS		NS					0.098	U
		1-Nov-19	0.098	U	NS		NS		NS		NS		NS		NS		0.24					NS	
		21-Jan-20	0.10		0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U	U			0.10	U
		22-Apr-20	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		23-Jul-20	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		29-Oct-20	0.12		0.11		0.11		0.098	U	0.12		0.098	U	0.098	U	0.16					0.13	
		19-Jan-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		15-Apr-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		21-Jul-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		20-Oct-21	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		31-Jan-22	0.13		0.14		0.1		0.14		0.1		0.14		0.12		0.12					0.098	U
		7-Apr-22	0.10	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		28-Jul-22	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		18-Oct-22	0.2	U	0.2	U	0.2	U	0.2 ^{MW}	U	0.2 ^{MW}	U	0.2 ^{MW}	U	0.2 ^{MW}	U	0.2 ^{MW}	U				0.098	U
		24-Jan-23	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		19-Apr-23	0.1		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		18-Jul-23	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	U			0.098	U
		25-Oct-23	0.58		0.1		0.098	U	0.098	U	0.11		0.13		0.34		0.11					0.098	U
		9-Jan-24	0.1		0.098	U	0.098	U	0.11		0.13		0.13		0.098	U	0.13					0.098	U
		25-Apr-24	0.5		0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	0.098	U
		4-Sep-24	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.12		0.12		0.098	U	0.13		0.13	0.098	U
15-Oct-24	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	U	0.098	0.138	U		
22-Nov-24																							
Vinyl chloride*	0.1	10-Jan-18	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U	0.026	U				0.026	U
		11-Apr-18	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.077	U	0.077	U	0.051	U	U			0.26 ^D	U
		27-Jul-18	0.051	U	0.051	U	0.051	U	0.051	U	0.077	U	0.077	U	0.051	U	0.051	U	U			0.051	U
		24-Oct-18	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U							

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Volatile Organic Compounds via TO-15	CT Draft Proposed Indoor Residential Target Air Concentrations/ Interim RIDEM-Approved Action Level	Sample Date	Kitchen Storage Room	Cafeteria	Gymnasium	Elevator Hallway	Room 118	Room 110	Media Center (Rm 145)	Room 152	Room 116	Ambient Outdoor (AOA-1)										
			Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual										
p'm-Xylene	220.0	10-Jan-18	0.86		1.90		1.60		1.80		0.73		0.77		2.0		0.94			0.17		
		11-Apr-18	0.68		0.54		0.49		0.55		0.40		0.49		0.4		0.55			0.87 ^D	U	
		27-Jul-18	0.27		0.37		0.46		0.42		0.3		1.2		0.41		0.36			0.23		
		24-Oct-18	1.1		0.44		0.57		0.54		0.36		0.65		0.28		0.21			0.34		
		16-Jan-19	0.85		0.7		0.68		0.73		0.71		0.8		0.76		0.35			0.26		
		12-Apr-19	0.37		0.23		0.19		0.28		0.24		0.29		0.26		0.29			0.31		
		29-Jul-19	0.98		0.34		0.46		0.49		0.55		0.64		0.69		0.34			0.39		
		29-Oct-19	NS		0.37		0.4		0.41		0.43		0.43		0.44		NS			0.35		
		1-Nov-19	0.58		NS		NS		NS		NS		NS		NS		0.88			NS		
		21-Jan-20	0.57		0.44		0.49		0.45		0.51		0.46		0.44		0.33			0.34		
		22-Apr-20	0.22		0.17		0.2		0.21		0.17	U	0.17		0.17	U	0.17	U		0.17	U	
		23-Jul-20	0.39		0.24		0.27		0.26		0.35		0.28		0.41		0.35			0.17	U	
		29-Oct-20	1.2		1.2		0.97		1.3		1.4		1.2		1.6		1.7			1.3		
		19-Jan-21	0.17	U	0.17	U	0.17	U	0.17	U	0.17	U	0.18		0.17	U	0.18			0.18		
		15-Apr-21	0.17	U	0.17	U	0.17	U	0.17		0.18		0.21		0.17	U	0.21			0.17	U	
		21-Jul-21	0.53		0.61		0.63		0.47		0.89		0.81		0.87		0.78			0.38		
		20-Oct-21	0.97		0.32		0.34		0.38		0.36		0.36		0.37		0.29			0.17	U	
		31-Jan-22	1.5		1.6		1.3		1.6		1.3		1.6		1.4		1.5			0.17	U	
		7-Apr-22	0.49		0.44		0.44		0.46		0.43		0.43		0.46		0.42			0.29		
		28-Jul-22	0.45		0.41		0.47		0.45		0.39		0.55		0.31		0.55			0.27		
		18-Oct-22	0.2		0.29		0.36		0.37		0.32		0.56		0.38		0.63			0.25		
		24-Jan-23	0.44		0.3		0.31		0.46		0.28		0.35		0.53		0.56			0.17	U	
		19-Apr-23	1.6		0.32		0.55		1		0.51		0.36		0.23		0.52			0.57		
		18-Jul-23	0.46		0.45		0.48		0.46		0.66		1.1		0.53		0.72			0.8		
		25-Oct-23	10		1.1		0.91		0.91		0.98		1.1		5.2		0.98			0.22		
		9-Jan-24	1.2		0.9		0.93		1.4		1.6		1.5		0.79		1.7			0.17	U	
		25-Apr-24	6.5		0.17	U	0.17	U	0.17	U	0.19		0.19		0.18		0.22	0.19		0.19		
		4-Sep-24	1.5		1.3		1.2		1.6		1.7		1.7		1.2		1.8	1.8		2.4		
		15-Oct-24	0.261		0.256		0.261		0.248		0.265		0.269		0.243		0.291	0.274		1.93		
		22-Nov-24															0.712					
o-Xylene	220.0	10-Jan-18	0.32		0.67		0.58		0.64		0.29		0.29		0.68		0.37			0.087	U	
		11-Apr-18	0.24		0.20		0.19		0.22		0.16		0.18		0.16		0.21			0.43 ^D	U	
		27-Jul-18	0.12		0.087	U	0.17		0.17		0.13	U	1		0.17		0.16			0.12		
		24-Oct-18	0.4		0.16		0.2		0.22		0.15		0.28		0.12		0.087	U		0.13		
		16-Jan-19	0.28		0.22		0.23		0.24		0.24		0.29		0.26		0.13			0.099		
		12-Apr-19	0.14		0.087		0.089		0.11		0.11		0.12		0.13		0.12			0.14		
		29-Jul-19	0.35		0.14		0.15		0.19		0.21		0.25		0.28		0.15			0.15		
		29-Oct-19	NS		0.14		0.15		0.16		0.17		0.18		0.17		NS			0.15		
		1-Nov-19	0.2		NS		NS		NS		NS		NS		NS		0.38			NS		
		21-Jan-20	0.24		0.18		0.22		0.19		0.2		0.2		0.18		0.15			0.15		
		22-Apr-20	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U		0.087	U	
		23-Jul-20	0.15		0.096		0.11		0.11		0.15		0.11		0.17		0.16			0.087	U	
		29-Oct-20	0.48		0.46		0.38		0.46		0.53		0.48		0.55		0.67			0.55		
		19-Jan-21	0.087		0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U		0.087	U	
		15-Apr-21	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.089	U	0.087	U	0.099	U		0.087	U	
		21-Jul-21	0.23		0.27		0.31		0.18		0.38		0.33		0.38		0.35			0.14		
		20-Oct-21	0.37		0.12		0.12		0.14		0.14		0.14		0.15		0.12			0.092		
		31-Jan-22	0.56		0.57		0.47		0.58		0.49		0.59		0.51		0.55			0.087	U	
		7-Apr-22	0.2		0.16		0.18		0.18		0.17		0.2		0.18		0.18			0.12		
		28-Jul-22	0.19		0.16		0.2		0.19		0.17		0.24		0.13		0.22			0.12		
		18-Oct-22	0.17	U	0.17	U	0.17	U	0.18		0.17	U	0.25		0.2		0.3			0.17	U	
		24-Jan-23	0.26		0.14		0.15		0.24		0.13		0.16		0.27		0.22			0.087	U	
		19-Apr-23	0.47		0.096		0.15		0.3		0.19		0.16		0.087	U	0.21			0.17		
		18-Jul-23	0.22		0.23		0.2		0.21		0.34		0.56		0.21		0.32			0.35		
		25-Oct-23	2.9		0.44		0.34		0.35		0.37		0.42		1.5		0.37			0.096		
		9-Jan-24	0.44		0.32		0.34		0.5		0.6		0.56		0.29		0.66			0.087	U	
		25-Apr-24	2.6		0.087	U	0.087	U	0.087	U	0.09		0.087	U	0.087	U	0.087	U	0.09	0.087	U	
		4-Sep-24	0.53		0.46		0.44		0.58		0.62		0.59		0.43		0.97	0.63		0.8		
		15-Oct-24	0.109		0.109		0.1		0.096		0.104		0.109		0.096		0.122	0.109		0.704		
		22-Nov-24															0.4					
* = Site Specific Compound of Concern per ATSDR Health Consultation, December 4, 2006. ** = Analyzed by Con-Test Analytical Laboratory ¹ Elevated Data is a result of inadvertant cross-contamination at the laboratory, and not resultant from soil vapor intrusion. Media Center/Room 145 was resampled on 28 January 2008 with Tetrachloroethylene concentration not detected by the laboratory (MDL = 0.14 ug/m³). ² Elevated Tetrachloroethylene and Acetone data detected on 27 March 2008 was determined to be the result of cleaning products (e.g., graffiti remover, stainless steel polish, etc.) introduced to the school in February and March, and not the result of soil vapor intrusion. ³ All samples collected on 20 April 2016 except for the Kitchen Storage Room, which was collected on 25 April 2016 due to inaccessibility of the room during spring break. ⁴ All samples collected on 17 April 2017 except for the Kitchen Storage Room, which was collected on 25 April 2017 due to inaccessibility of the room during spring break. ⁵ Summa canister had low pressure upon beginning sample colletion, possible interference.Re-sampling effort on 25 April 2008 indicates no exceedences of applicable Acetone and Tetrachloroethylene Action Levels. ⁶ Analyte found in associated blank as well as the sample but not expected to affect data due to sample concentration >10x concentration found in blank. ⁷ Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side. ⁸ 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. ⁹ Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. ¹⁰ Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side. ¹¹ Estimated result as the result was between the MDL and the RDL. ¹² Initial calibration verification did not meet standard. Reported value is likely to be biased on the high side. ¹³ Initial calibration did not meet standard and was biased on the low side. Reported result is estimated. ¹⁴ Elevated method detection limits due to failure of Con-test internal standards. Applies to Ambient Outdoor Air sample.																						
NOTES: All data presented in micrograms per cubic meter (ug/m ³). Two values displayed with a slash indicates dilutions resulting in two different concentrations U = Designation indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column. NS = Not sampled. None = No Draft Proposed CT Residential TAC for this compound. = exceedance of interim RIDEM-approved action level																						

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APPENDIX C

Subslab Vapor Analytical Summary

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Acetone	10-Jan-18	39		NS		17		8.1		NS		14		NS		NS		26		NS		28	
	11-Apr-18	NS		34		NS		NS		26		NS		36		63		38		NS		40	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		19		NS	
	27-Jul-18	73		NS		110		130		NS		77		NS		NS		83		63		NS	
	24-Oct-18	NS		13		NS		NS		13		NS		16		21		30		NS		35	
	16-Jan-19	33		NS		6.9		6.1		NS		6.8		NS		NS		14		21		NS	
	12-Apr-19	NS		8.8		NS		NS		17		NS		9.2		7.7		25		NS		51	
	29-Jul-19	130 ^E		NS		92 ^E		130 ^E		NS		110 ^E		NS		NS		72 ^E		65 ^E		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		68		NS	
	29-Oct-19	NS		9.8		NS		NS		12		NS		6		12		35 ^U		24 ^U		29 ^U	
	21-Jan-20	9.20		NS		5.10		8.40		NS		3.10		NS		NS		9.50		11.00		NS	
	22-Apr-20	NS		15		NS		NS		25		NS		38		40		60 ^E		NS		40	
	23-Jul-20	150 ^E		NS		260 ^E		130 ^E		NS		210 ^E		NS		NS		120 ^E		92		NS	
	29-Oct-20	NS		5.1		NS		NS		11		NS		6.6		7.4		25		NS		25	
	19-Jan-21	7.4		NS		8.6		5.7		NS		5.4		NS		NS		26		10 ^F		NS	
	15-Apr-21	NS		14		NS		NS		11		NS		4.4		13		20		NS		15	
	21-Jul-21	48		NS		50		61		NS		71		NS		NS		66		25		NS	
	20-Oct-21	NS		16		NS		NS		36		NS		60 ^F		33		26		NS		29	
	9-Feb-22	6.7		NS		6.2		45		NS		13		NS		NS		16		24		NS	
	7-Apr-22	NS		7.4		NS		NS		4		NS		5		8.6		10		NS		19	
	28-Jul-22	8.5		NS		19		23		NS		37		NS		NS		37		17		NS	
	18-Oct-22	NS		16		NS		NS		15		NS		8.9		12		18		NS		31	
	24-Jan-23	15		NS		5.2		13		NS		12		NS		NS		13		18		NS	
	19-Apr-23	NS		6.4		NS		NS		11		NS		11		16		22		NS		22	
	5-Jul-23	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	20		NS		34		34		NS		42		NS		NS		30		30		NS	
	25-Oct-23	NS		15		NS		NS		17		NS		32		33		23		NS		42	
	9-Jan-24	8.4		NS		7		7.2		NS		8.8		NS		NS		15		18		NS	
	25-Apr-24	NS		6.7		NS		NS		9.2		NS		14		9.2		34		NS		23	
	4-Sep-24	24		NS		24		31		NS		38		NS		NS		6.7		15		NS	
	15-Oct-24	NS		21.9		NS		NS		2.38	U	NS		2.38	U	2.38	U	2.38	U	NS		13	
Acrylonitrile	10-Jan-18	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U
	11-Apr-18	NS		0.25	U	NS		NS		2.5	U	NS		2.5	U	2.5	U	0.25	U	NS		2.5	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS	
	27-Jul-18	1.3	U	NS		1.3	U	1.3	U	NS		1.3	U	NS		NS		1.3	U	1.3	U	NS	
	24-Oct-18	NS		1.2	U	NS		NS		1.2	U	NS		1.2	U	1.2	U	NS		NS		1.2	U
	16-Jan-19	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	12-Apr-19	NS		0.25	U	NS		NS		0.25	U	NS		0.31	U	0.38	U	0.38	U	NS		0.38	U
	29-Jul-19	0.38	U	NS		0.38	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS	
	29-Oct-19	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		1.3 ^U	U	1.3 ^U	U	1.3 ^U	
	21-Jan-20	0.25 ^W	U	NS		0.25 ^W	U	0.25 ^W	U	NS		0.25 ^W	U	NS		NS		0.25 ^W	U	0.25 ^W	U	NS	
	22-Apr-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	23-Jul-20	0.25	U	NS		0.25	U	0.25	U	NS		0.5	U	NS		NS		0.5	U	0.5	U	NS	
	29-Oct-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	19-Jan-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.38 ^F	U	NS	
	15-Apr-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	21-Jul-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	20-Oct-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	9-Feb-22	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	7-Apr-22	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	28-Jul-22	0.25	U	NS		0.5	U	0.5	U	NS		0.5	U	NS		NS		0.75		0.5	U	NS	
	18-Oct-22	NS		0.25 ^{L-V}	U	NS		NS		0.25 ^{L-V}	U	NS		0.25 ^{L-V}	U	0.25 ^{L-V}	U	0.25 ^{L-V}	U	NS		0.25 ^{L-V}	U
	24-Jan-23	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	19-Apr-23	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U
	5-Jul-23	NS		NS		NS		0.25	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	25-Oct-23	NS		0.25	U	NS		NS		0.25	U	NS		0.38	U	0.38	U	0.25	U	NS		0.25	U
	9-Jan-24	0.25	U	NS		0.25	U	0.25	U														

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Bromodichloromethane	10-Jan-18	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U
	11-Apr-18	NS		0.13	U	NS		NS		1.3	U	NS		1.3	U	1.3		0.13	U	NS		1.3	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1	U	NS	
	27-Jul-18	0.34	U	NS		0.34	U	0.34	U	NS		0.34	U	NS		0.34		0.34	U	NS		0.34	U
	24-Oct-18	NS		0.34	U	NS		NS		0.34	U	NS		0.34	U	0.34		0.34	U	NS		0.34	U
	16-Jan-19	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	12-Apr-19	NS		0.067	U	NS		NS		0.067	U	NS		0.084	U	0.1		0.1	U	NS		0.1	U
	29-Jul-19	0.1	U	NS		0.1	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	1.6		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1	U	NS	
	29-Oct-19	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	0.067		0.34 ^U	U	0.34 ^U		0.34 ^U	
	21-Jan-20	0.07	U	NS		0.07	U	0.07	U	NS		0.07	U	NS		NS		0.07	U	0.07		NS	
	22-Apr-20	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	0.067		0.067	U	NS		0.067	U
	23-Jul-20	0.067	U	NS		0.067	U	0.067	U	NS		0.13	U	NS		NS		0.13	U	NS		NS	
	29-Oct-20	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	0.067		0.067	U	NS		0.067	U
	19-Jan-21	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.1 ^U		NS	
	15-Apr-21	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	NS		0.067	U	NS		0.067	U
	21-Jul-21	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	20-Oct-21	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	NS		0.067	U	NS		0.067	U
	9-Feb-22	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	NS		NS	
	7-Apr-22	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	NS		0.067	U	NS		0.067	U
	28-Jul-22	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	18-Oct-22	NS		0.067	U	NS		NS		0.067	U	NS		0.067	U	NS		0.067	U	NS		0.067	U
	24-Jan-23	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	19-Apr-23	NS		0.067	U	NS		NS		NS		NS		NS		0.067		0.067	U	NS		0.067	U
	5-Jul-23	NS		NS		NS		0.067	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.067	U	NS		0.067	U	0.067	U	NS		NS		NS		NS		0.067	U	0.067		NS	
	25-Oct-23	NS		0.067	U	NS		NS		NS		0.067	U	NS		0.1	U	0.1		0.067	U	NS	
	9-Jan-24	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	25-Apr-24	NS		0.067	U	NS		NS		NS		0.067	U	NS		0.067		0.067	U	NS		0.067	U
	4-Sep-24	0.067	U	NS		0.067	U	0.067	U	NS		0.067	U	NS		NS		0.067	U	0.067		NS	
	15-Oct-24	NS		0.134	U	NS		NS		NS		0.134	U	NS		0.134	U	0.134		0.134	U	NS	
Bromoform	10-Jan-18	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.210	U	NS		0.21	U
	11-Apr-18	NS		0.21	U	NS		NS		2.1 ^U	U	NS		2.1 ^U	U	NS		0.210	U	NS		2.1 ^U	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.31		NS	
	27-Jul-18	1.0	U	NS		1.0	U	1.0	U	NS		1.0	U	NS		NS		1.0	U	1.0	U	NS	
	24-Oct-18	NS		1	U	NS		NS		1	U	NS		1	U	1		1.0	U	NS		1	U
	16-Jan-19	0.2	U	NS		0.2	U	0.2	U	NS		0.2	U	NS		NS		0.2	U	0.2		NS	
	12-Apr-19	NS		0.1	U	NS		NS		0.1	U	NS		0.13	U	0.16		0.16	U	NS		0.16	U
	29-Jul-19	0.31	U	NS		0.31	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	3.1		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.31	U	NS	
	29-Oct-19	NS		0.21	U	NS		NS		0.21	U	NS		0.21	U	1 ^U		1 ^U	U	1 ^U	U	1 ^U	
	21-Jan-20	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	0.21		NS	
	22-Apr-20	NS		0.21	U	NS		NS		0.21	U	NS		0.21	U	NS		0.21	U	NS		0.21	U
	23-Jul-20	0.21	U	NS		0.21	U	0.21	U	NS		0.41	U	NS		NS		0.41	U	NS		NS	
	29-Oct-20	NS		0.21	U	NS		NS		0.21	U	NS		0.21	U	NS		0.21	U	NS		0.21	U
	19-Jan-21	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	0.31 ^U		NS	
	15-Apr-21	NS		0.21	U	NS		NS		0.21	U	NS		NS		0.21		0.21	U	NS		0.21	U
	21-Jul-21	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	NS		NS	
	20-Oct-21	NS		0.21	U	NS		NS		0.21	U	NS		0.21	U	NS		0.21	U	NS		0.21	U
	9-Feb-22	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	NS		NS	
	7-Apr-22	NS		0.21	U	NS		NS		0.21	U	NS		NS		NS		0.21	U	NS		0.21	U
	28-Jul-22	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	NS		NS	
	18-Oct-22	NS		0.21	U	NS		NS		NS		NS		NS		NS		0.21	U	NS		0.21	U
	24-Jan-23	0.21	U	NS		0.21	U	0.21	U	NS		0.21	U	NS		NS		0.21	U	NS		NS	
	19-Apr-23	NS		0.21	U	NS		NS		NS		NS		NS		NS		0.21	U	NS		0.21	U
	4-Jul-23	NS		NS		NS		0.21	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.21	U	NS		0.21	U</																

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15		Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
n-Butylbenzene	10-Jan-18	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	
	11-Apr-18	NS		0.32	U	NS		NS		3.2	U	NS		3.2	U	3.2	U	0.32	U	NS		NS		
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.47	U	NS		
	27-Jul-18	1.6	U	NS		1.6	U	1.6	U	NS		1.6	U	NS		NS		1.6	U	1.6	U	NS		
	24-Oct-18	NS		1.6	U	NS		NS		1.6	U	NS		1.6	U	1.6	U	1.6	U	NS		1.6	U	
	16-Jan-19	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	12-Apr-19	NS		0.32	U	NS		NS		0.32	U	NS		0.4	U	0.47	U	0.47	U	NS		0.47	U	
	29-Jul-19	0.47	U	NS		0.47	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.47	U	NS		
	29-Oct-19	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	0.32	U	1.6 ^U	U	1.6 ^U	U	1.6 ^U	U	
	21-Jan-20	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	22-Apr-20	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	0.32	U	0.32	U	NS		0.32	U	
	23-Jul-20	0.32	U	NS		0.32	U	0.32	U	NS		0.63	U	NS		NS		0.63	U	0.63	U	NS		
	29-Oct-20	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	NS		0.32	U	NS		NS		
	19-Jan-21	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.47 ^F	U	NS		
	15-Apr-21	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	NS		0.32	U	NS		0.32	U	
	21-Jul-21	0.63	U	NS		0.63	U	0.63	U	NS		0.63	U	NS		NS		0.63	U	0.63	U	NS		
	20-Oct-21	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	NS		0.32	U	NS		0.32	U	
	9-Feb-22	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	NS		NS		
	7-Apr-22	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	NS		0.32	U	NS		0.32	U	
	28-Jul-22	0.32	U	NS		0.63	U	0.63	U	NS		0.63	U	NS		NS		0.95	U	0.63	U	NS		
	18-Oct-22	NS		0.32	U	NS		NS		0.32	U	NS		NS		0.32	U	NS	U	NS		0.32	U	
	24-Jan-23	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	19-Apr-23	NS		0.32	U	NS		NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		0.32	U	
	5-Jul-23	NS		NS		NS		NS		0.32	U	NS		NS		NS		NS		NS		NS		
	18-Jul-23	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	25-Oct-23	NS		0.32	U	NS		NS		0.32	U	NS		0.47	U	0.47	U	0.32	U	NS		0.32	U	
	9-Jan-24	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	25-Apr-24	NS		0.32	U	NS		NS		0.32	U	NS		0.32	U	NS		0.32	U	NS		0.32	U	
	4-Sep-24	0.32	U	NS		0.32	U	0.32	U	NS		0.32	U	NS		NS		0.32	U	0.32	U	NS		
	15-Oct-24	NS		1.1	U	NS		NS		NS		1.1	U	NS		1.1	U	1.1	U	NS		1.1	U	
sec-Butylbenzene	10-Jan-18	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	
	11-Apr-18	NS		0.25	U	NS		NS		2.5	U	NS		2.5	U	2.5	U	0.25	U	NS		2.5	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS		
	27-Jul-18	1.3	U	NS		1.3	U	1.3	U	NS		1.3	U	NS		NS		1.3	U	1.3	U	NS		
	24-Oct-18	NS		1.3	U	NS		NS		1.3	U	NS		1.3	U	NS		1.3	U	NS		1.3	U	
	16-Jan-19	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	12-Apr-19	NS		0.25	U	NS		NS		0.25	U	NS		0.31	U	0.38	U	0.38	U	NS		0.38	U	
	29-Jul-19	0.38	U	NS		0.38	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS		
	29-Oct-19	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	1.3 ^U	U	1.3 ^U	U	1.3 ^U	U	NS		
	21-Jan-20	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	22-Apr-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	23-Jul-20	0.25	U	NS		0.25	U	0.25	U	NS		0.5	U	NS		NS		0.5	U	0.5	U	NS		
	29-Oct-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	19-Jan-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.38 ^F	U	NS		
	15-Apr-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	21-Jul-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	20-Oct-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	9-Feb-22	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	7-Apr-22	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	28-Jul-22	0.25	U	NS		0.5	U	0.5	U	NS		0.5	U	NS		NS		0.75	U	0.5	U	NS		
	18-Oct-22	NS		0.25	U	NS		NS		0.25	U	NS		NS		NS		0.25	U	NS		0.25	U	
	24-Jan-23	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		
	19-Apr-23	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS		0.25	U	NS		0.25	U	
	5-Jul-23	NS		NS		NS		0.25	U	NS		NS		NS		NS		NS		NS		NS		
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Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15		Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Chlorobenzene	10-Jan-18	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	
	11-Apr-18	NS		0.092	U	NS		NS		0.92	U	NS		0.92	U	0.92		U		NS		0.92	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.14	U	NS		
	27-Jul-18	0.46	U	NS		0.46	U	0.46	U	NS		0.46	U	NS		0.46		U		0.46	U	NS		
	24-Oct-18	NS		0.46	U	NS		NS		0.46	U	NS		0.46	U	0.46		U		NS		0.46	U	
	16-Jan-19	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	0.092		NS		
	12-Apr-19	NS		0.092	U	NS		NS		0.092	U	NS		0.12	U	0.14		U		NS		0.14	U	
	29-Jul-19	0.14	U	NS		0.14	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	0.092		NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.14	U	NS		
	29-Oct-19	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	0.092		U		0.46 ^U	U	0.46 ^U	U	
	21-Jan-20	0.09	U	NS		0.09	U	0.09	U	NS		NS		NS		NS		NS		0.09	U	NS		
	22-Apr-20	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	0.092		U		NS		0.092	U	
	23-Jul-20	0.092	U	NS		0.092	U	0.092	U	NS		0.18	U	NS		NS		NS		0.18	U	NS		
	29-Oct-20	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	0.092		U		NS		0.092	U	
	19-Jan-21	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	NS		NS		
	15-Apr-21	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	0.092		U		NS		0.092	U	
	21-Jul-21	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	NS		NS		
	20-Oct-21	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	
	9-Feb-22	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	NS		NS		
	7-Apr-22	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	
	28-Jul-22	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	0.092		NS		
	18-Oct-22	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	
	24-Jan-23	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	0.092		NS		
	19-Apr-23	NS		0.092	U	NS		NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	
	5-Jul-23	NS		NS		NS		NS		0.092	U	NS		NS		NS		NS		NS		NS		
	18-Jul-23	0.092	U	NS		0.092	U	0.098		NS		0.39		NS		NS		NS		0.13		NS		
	25-Oct-23	NS		0.098		NS		NS		0.092	U	NS		0.16		0.14		0.092	U	NS		0.092	U	
	9-Jan-24	0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	NS		NS		0.092	U	0.092		NS		
	25-Apr-24	NS		0.092	U	NS		NS		NS		0.092	U	NS		0.092	U	0.092	U	NS		0.092	U	
	4-Sep-24	0.092	U	NS		0.092	U	0.092	U	NS		NS		0.092	U	NS		0.092	U	NS		NS		
	15-Oct-24	NS		0.461	U	NS		NS		NS		0.461	U	NS		0.461	U	0.461	U	NS		0.461	U	
Chloroethane	10-Jan-18	0.13		NS		0.17		0.07		NS		0.36		NS		NS		0.053	U	NS		0.084		
	11-Apr-18	NS		0.053	U	NS		NS		0.53	U	NS		0.53	U	0.53		U		NS		0.53	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.079	U	NS		
	27-Jul-18	0.26	U	NS		0.26	U	0.26	U	NS		0.26	U	NS		NS		0.26	U	NS		NS		
	24-Oct-18	NS		0.26	U	NS		NS		0.26	U	NS		0.26	U	0.26		U		NS		0.26	U	
	16-Jan-19	0.053	U	NS		0.053	U	0.053	U	NS		0.29		NS		NS		0.053	U	NS		NS		
	12-Apr-19	NS		0.053	U	NS		NS		0.053	U	NS		0.066	U	0.079		U		NS		0.079	U	
	29-Jul-19	0.079	U	NS		0.079	U	0.053	U	NS		0.053		NS		NS		0.053	U	0.75		NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.079	U	NS		
	29-Oct-19	NS		0.053 ^L	U	NS		NS		0.053 ^L	U	NS		0.053 ^L	U	0.053 ^L		U		0.26 ^{L-U}	U	0.26 ^{L-U}	U	
	21-Jan-20	0.05	U	NS		0.05	U	NS		NS		0.05	U	NS		NS		NS		0.05	U	NS		
	22-Apr-20	NS		0.053	U	NS		NS		0.053	U	NS		0.053	U	0.053		U		NS		0.053	U	
	23-Jul-20	0.053	U	NS		0.053	U	0.053	U	NS		0.11	U	NS		NS		NS		0.11	U	NS		
	29-Oct-20	NS		0.053	U	NS		NS		0.053	U	NS		0.053	U	0.053		U		NS		0.053	U	
	19-Jan-21	0.053	U	NS		0.053	U	NS		0.053	U	NS		NS		NS		NS		0.079 ^F	U	NS		
	15-Apr-21	NS		0.053	U	NS		NS		0.053	U	NS		0.053	U	0.053		U		NS		0.053	U	
	21-Jul-21	0.081		NS		0.28		0.06		NS		0.053		NS		NS		0.053	U	0.053	U	NS		
	20-Oct-21	NS		0.053	U	NS		NS		NS		0.053	U	NS		0.087		0.053	U	NS		0.053	U	
	9-Feb-22	0.053	U	NS		0.053	U	0.053	U	NS		0.39		NS		NS		0.053	U	0.053	U	NS		
	7-Apr-22	NS		0.053	U	NS		NS		0.053	U	NS		0.053	U	NS		NS		NS		0.053	U	
	28-Jul-22	0.053	U	NS		0.053	U	0.053	U	NS		1.2		NS		NS		0.053	U	0.053		NS		
	18-Oct-22	NS		0.053	U	NS		NS		0.053	U	NS		NS		0.1		0.053	U	0.084		NS		
	24-Jan-23	0.053	U	NS		0.12		0.083		NS		0.18		NS		NS		0.053	U	0.053		NS		
	19-Apr-23	NS		0.053	U	NS		NS		0.053	U	NS		0.064		0.053		U		NS		0.053	U	
	5-Jul-23	NS		NS		NS		0.053	U	NS		NS		NS		NS		NS		NS		NS		
	18-Jul-23	0.053	U	NS		0.057		0.15		NS		0.064		NS		NS</								

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Chloromethane	10-Jan-18	5.3		NS		3.8		1.4		NS		2.8		NS		NS		0.99		NS		1.1	
	11-Apr-18	NS		0.083	U	NS		NS		0.83	U	NS		NS		1.8		1.4		NS		0.83	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.99		NS	
	27-Jul-18	4.5		NS		3.4		5.5		NS		2.6		NS		NS		0.41	U	2.8		NS	
	24-Oct-18	NS		0.41	U	NS		NS		0.41	U	NS		NS		0.41	U	1		NS		1.2	
	16-Jan-19	0.083	U	NS		2		0.083	U	NS		0.083	U	NS		NS		1		0.083	U	NS	
	12-Apr-19	NS		0.083 ⁺	U	NS		NS		0.083 ⁺	U	NS		NS		0.1 ⁺	U	1.1 ⁺		NS		0.12 ⁺	U
	29-Jul-19	0.12	U	NS		0.12	U	0.083	U	NS		0.083	U	NS		NS		0.083		0.083	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.12	U	NS	
	29-Oct-19	NS		0.083	U	NS		NS		0.083	U	NS		NS		0.083	U	0.083		NS		0.41 ⁺	U
	21-Jan-20	0.08	U	NS		0.08	U	0.08	U	NS		0.08	U	NS		NS		NS	U	0.08		NS	
	22-Apr-20	NS		0.083	U	NS		NS		0.083	U	NS		NS		0.083	U	NS		0.92		NS	
	23-Jul-20	0.083	U	NS		0.083	U	0.083	U	NS		0.17	U	NS		NS		0.17		NS	U	NS	
	29-Oct-20	NS		0.083	U	NS		NS		0.083	U	NS		NS		0.083	U	NS		0.083		0.083	U
	19-Jan-21	0.083	U	NS		1		0.083	U	NS		0.083	U	NS		NS		0.083		NS	U	NS	
	15-Apr-21	NS		0.083	U	NS		NS		0.083	U	NS		NS		0.083	U	NS		0.083		0.12 ⁺	U
	21-Jul-21	1.7		NS		3.6		3.1		NS		1.5		NS		NS		1.1		1.4		NS	
	20-Oct-21	NS		0.083	U	NS		NS		0.083	U	NS		NS		0.083	U	NS		1.2		NS	
	9-Feb-22	0.083	U	NS		NS		0.083	U	NS		0.083	U	NS		NS		NS		1		0.083	U
	7-Apr-22	NS		0.083	U	NS		NS		NS		0.083	U	NS		NS		0.083	U	NS		1.1	
	28-Jul-22	0.083	U	NS		1.4		1.3		NS		0.083	U	NS		NS		NS		0.73		0.083	U
	18-Oct-22	NS		0.92		NS		NS		NS		1.1		NS		0.083	U	1.3		0.91		NS	
	24-Jan-23	1.2		NS		2.2		0.083	U	NS		NS		NS		NS		NS		1.2		NS	
	19-Apr-23	NS		2.8		NS		NS		1.8		NS		NS		1.2		0.92		NS		0.96	
	5-Jul-23	NS		NS		NS		NS		1.2		NS		NS		NS		NS		NS		NS	
	18-Jul-23	2.8		NS		NS		4.3		NS		1.5		NS		NS		NS		1.5		NS	
	25-Oct-23	NS		1.2		NS		NS		3.4		NS		1.5		NS		4.3		NS		1.4	
	9-Jan-24	1.8		NS		1.4		1.9		NS		2.5		NS		NS		0.99		1.2		NS	
	25-Apr-24	NS		1.2		NS		NS		2.2		NS		NS		1.1		1.3		NS		1.2	
	4-Sep-24	1.3		NS		4.5		1.6		NS		3		NS		NS		3.2		0.94		NS	
	15-Oct-24	NS		1.16		NS		NS		NS		1.21		NS		1.35		0.781		0.723		NS	
Dibromochloromethane	10-Jan-18	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.085	U	NS		0.085	U
	11-Apr-18	NS		0.17	U	NS		NS		1.7	U	NS		NS		1.7	U	NS		NS		1.7	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.13	U	NS	
	27-Jul-18	0.43	U	NS		0.43	U	0.43	U	NS		0.43	U	NS		NS		0.43	U	NS		NS	
	24-Oct-18	NS		0.43	U	NS		NS		0.43	U	NS		NS		0.43	U	NS		0.43	U	NS	
	16-Jan-19	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.085	U	NS		NS	
	12-Apr-19	NS		0.085	U	NS		NS		0.085	U	NS		0.11	U	0.13	U	0.13	U	NS		0.13	U
	29-Jul-19	0.13	U	NS		0.13	U	0.085	U	NS		0.12		NS		NS		0.11		2.3		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.13	U	NS	
	29-Oct-19	NS		0.085	U	NS		NS		0.085	U	NS		0.085	U	0.085	U	0.43 ^U	U	0.43 ^U	U	0.43 ^U	
	21-Jan-20	0.09	U	NS		0.09	U	0.09	U	NS		0.09	U	NS		NS		NS		0.09	U	NS	
	22-Apr-20	NS		0.085	U	NS		NS		0.085	U	NS		NS		0.085	U	0.085	U	NS		0.085	U
	23-Jul-20	0.085	U	NS		0.085	U	0.085	U	NS		0.17	U	NS		NS		0.17	U	NS		NS	
	29-Oct-20	NS		0.085	U	NS		NS		0.085	U	NS		NS		0.085	U	NS		0.085		0.085	U
	19-Jan-21	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.085	U	NS		NS	
	15-Apr-21	NS		0.085	U	NS		NS		0.085	U	NS		NS		NS		NS		0.13 ⁺	U	NS	
	21-Jul-21	0.085	U	NS		0.085	U	0.085	U	NS		NS		NS		NS		NS		NS		NS	
	20-Oct-21	NS		0.085	U	NS		NS		0.085	U	NS		NS		NS		NS		NS		NS	
	9-Feb-22	0.085	U	NS		0.085	U	0.085	U	NS		NS		NS		NS		NS		NS		NS	
	7-Apr-22	NS		0.085	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	28-Jul-22	0.085	U	NS		0.085	U	0.085	U	NS		NS		NS		NS		NS		NS		NS	
	18-Oct-22	NS		0.085	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	24-Jan-23	0.085	U	NS		0.085	U	0.085	U	NS		NS		NS		NS		NS		NS		NS	
	19-Apr-23	NS		0.085	U	NS		NS		NS		NS		NS		NS		NS		NS		NS	
	5-Jul-23	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.085	U	NS		0.085	U	NS		NS		NS		NS		NS		NS		NS		NS	
	25-Oct-23	NS		0.085	U	NS		NS		NS		NS		NS		0.13	U	0.13	U	NS		NS	
	9-Jan-24	0.085	U	NS		0.085	U	NS		NS		NS		NS		NS		NS		NS		NS	
	25-Apr-24	NS		0.085	U	NS		NS		NS		NS		NS									

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
1,2-Dichlorobenzene	10-Jan-18	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS		0.12	U
	11-Apr-18	NS		0.12	U	NS		NS		1.2	U	NS		1.2	U	1.2	U	NS	U	NS		1.2	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS	U	NS		0.18	U	NS	
	27-Jul-18	0.60	U	NS		0.60	U	0.60	U	NS		0.60	U	NS		NS	U	0.60	U	NS	U	NS	
	24-Oct-18	NS		0.6	U	NS		NS		0.6	U	NS		0.6	U	0.6	U	NS		NS		0.6	U
	16-Jan-19	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	12-Apr-19	NS		0.12	U	NS		NS		0.12	U	NS		0.15	U	0.18	U	NS		NS		0.18	U
	29-Jul-19	0.18	U	NS		0.18	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.18	U	NS	
	29-Oct-19	NS		0.12	U	NS		NS		0.23		NS		0.12	U	0.12	U	0.6 ^U	U	0.6 ^U	U	0.6 ^U	
	21-Jan-20	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	22-Apr-20	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	23-Jul-20	0.12	U	NS		0.12	U	0.12	U	NS		0.24	U	NS		NS		0.24	U	NS	U	NS	
	29-Oct-20	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	19-Jan-21	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	15-Apr-21	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	21-Jul-21	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	20-Oct-21	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	9-Feb-22	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	7-Apr-22	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	28-Jul-22	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	0.12	U	NS	
	18-Oct-22	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	NS	U	0.12	U	NS		0.12	U
	24-Jan-23	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	19-Apr-23	NS		0.12 ^W	U	NS		NS		0.12 ^W	U	NS		0.12 ^W	U	0.12 ^W	U	0.12 ^W	U	NS		0.12 ^W	U
	5-Jul-23	NS		NS		NS		0.12	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	25-Oct-23	NS		0.12	U	NS		NS		0.12	U	NS		0.18	U	0.18	U	0.12	U	NS		0.12	U
	9-Jan-24	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	25-Apr-24	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	4-Sep-24	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	NS	U	NS	
	15-Oct-24	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
1,3-Dichlorobenzene	10-Jan-18	0.12	U	NS		0.19		0.28		NS		0.12	U	NS		NS	U	0.37		NS		0.69	
	11-Apr-18	NS		0.12	U	NS		NS		1.2	U	NS		1.2	U	0.58	U	NS		NS		1.2	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS	U	NS		3.2		NS	
	27-Jul-18	3.4		NS		6.4		4.4		NS		4.1		NS		NS		1.1		NS		NS	
	24-Oct-18	NS		0.6	U	NS		NS		0.6	U	NS		0.6	U	0.6	U	0.6	U	NS		0.6	U
	16-Jan-19	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.19		0.24		NS	
	12-Apr-19	NS		0.2		NS		NS		0.13		NS		0.15	U	0.18	U	NS	U	NS		0.18	U
	29-Jul-19	3.3		NS		3		6.4		NS		6.7		NS		NS		1.4		3.6		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		1		NS	
	29-Oct-19	NS		1		NS		NS		1.4		NS		0.22		1.1		2.6 ^U		4.1 ^U		2.7 ^U	
	21-Jan-20	0.57		NS		0.68		0.67		NS		0.25		NS		NS		0.93		NS	U	0.12	
	22-Apr-20	NS		0.3		NS		NS		0.13		NS		0.63		0.84		0.12	U	NS		0.12	U
	23-Jul-20	0.12	U	NS		6.3		0.12	U	NS		0.24	U	NS		NS		0.24	U	NS	U	NS	
	29-Oct-20	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	19-Jan-21	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	0.18 ^F	U	NS	
	15-Apr-21	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	21-Jul-21	2.2		NS		1.6		1.8		NS		3.5		NS		NS	U	0.19		0.26		NS	
	20-Oct-21	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	9-Feb-22	0.23		NS		0.39		1.6		NS		0.27		NS		NS	U	0.56		0.68		NS	
	7-Apr-22	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	28-Jul-22	2.2		NS		6.6		2.9		NS		3.1		NS		NS	U	0.12	U	0.12	U	NS	
	18-Oct-22	NS		0.12	U	NS		NS		0.12	U	NS		0.12	U	0.12	U	0.12	U	NS		0.12	U
	24-Jan-23	0.12	U	NS		0.12	U	0.12	U	NS		0.12	U	NS		NS	U	0.12	U	0.12	U	NS	
	19-Apr-23	NS		1.2		NS		NS		0.52		NS		0.35		2.2		1.4		NS	U	0.14	
	5-Jul-23	NS		NS		NS		0.12	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	3.3		NS		6.9		7		NS		7.2		NS		NS							

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
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Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Dichlorodifluoromethane	10-Jan-18	0.66		NS		0.67		0.65		NS		0.63		NS		NS		0.63		NS		0.63	
	11-Apr-18	NS		1.2		NS		NS		2.8		NS		2.7		2.7		1.1		NS		2.7	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		1.6		NS	
	27-Jul-18	1.6		NS		1.7		1.6		NS		1.5		NS		NS		1.4		1.6		NS	
	24-Oct-18	NS		1.7		NS		NS		1.2		NS		1.1		1.1		1.3		NS		1.2	
	16-Jan-19	0.75		NS		0.78		0.75		NS		0.8		NS		NS		0.79		0.99		NS	
	12-Apr-19	NS		0.84 ^L V		NS		NS		0.83 ^L V		NS		0.86 ^L V		0.79		0.8		NS		1.1	
	29-Jul-19	0.15	U	NS		NS	U	0.099	U	NS		0.099	U	NS		0.099		0.099	U	0.099	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		1.5		NS	
	29-Oct-19	NS		1.5		NS		NS		1.8		NS		1.6		1.5		2.6 ^D	U	3.4 ^D	U	2.8 ^D	
	21-Jan-20	2.40		NS		2.40		0.10	U	NS		2.60		NS		NS		0.73	U	2.50		NS	
	22-Apr-20	NS		1.2		NS		NS		1.1		NS		1.1		1.1		1.1		NS		1.3	
	23-Jul-20	0.099	U	NS		1.1		1.1		NS		0.2		NS	U	NS		2.6		0.2	U	NS	
	29-Oct-20	NS		0.099	U	NS		NS		0.099	U	NS		0.099	U	0.099	U	0.099		NS		0.099	U
	19-Jan-21	0.91		NS		0.99		0.099	U	NS		0.96		NS		NS		NS	U	1.1 ^F		NS	
	15-Apr-21	NS		0.099	U	NS		NS		0.099	U	NS		1.9		0.099	U	0.099	U	NS		1.9	
	21-Jul-21	1.8		NS		1.9		2.3		NS		2.2		NS		NS		2		2		NS	
	20-Oct-21	NS		2.4		NS		NS		2.5		NS		2.8		2.8		2.6		NS		2.6	
	9-Feb-22	0.7		NS		0.93		0.71		NS		0.82		NS		NS		0.88		0.91		NS	
	7-Apr-22	NS		2.2		NS		NS		2.2		NS		2.2		2.2		2.3		NS		2.3	
	28-Jul-22	0.52		NS		2.6		2.7		NS		0.099	U	NS		NS		1.6		2.7		NS	
	18-Oct-22	NS		2.4		NS		NS		2.4		NS		2.6		2.5		2.3		NS		2.4	
	24-Jan-23	2.5		NS		2.6		2.6		NS		2.5		NS		NS		2.6		2.9		NS	
	19-Apr-23	NS		0.68		NS		NS		0.7		NS		0.7		0.73		0.72		NS		0.68	
	5-Jul-23	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.6		NS		0.58		0.61		NS		0.55		NS		NS		0.53		0.58		NS	
	25-Oct-23	NS		1.2		NS		NS		0.96		NS		1.3		1.7		1.2		NS		1.2	
	9-Jan-24	1.4		NS		1.4		1.5		NS		1.2		NS		NS		0.97		1.5		NS	
	25-Apr-24	NS		1.6		NS		NS		1.7		NS		1.6		1.7		1.7		NS		1.6	
	4-Sep-24	1.1		NS		1.1		1.3		NS		0.54		NS		NS		0.64		0.66		NS	
	15-Oct-24	NS		2.47		NS		NS		NS		2.17		NS		2.24		2.34		NS		2.07	
1,1-Dichloroethane	10-Jan-18	0.04	U	NS		0.04	U	0.04	U	NS	U	0.04	U	NS	U	NS	U	0.04	U	NS		0.04	U
	11-Apr-18	NS		0.081	U	NS		NS		0.81	U	NS		0.81	U	0.81	U	0.081	U	NS		0.81	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.061	U	NS	
	27-Jul-18	0.20	U	NS		0.20	U	0.20	U	NS		0.20	U	NS		NS		0.20	U	0.20	U	NS	
	24-Oct-18	NS		0.2	U	NS		NS		0.2	U	NS		0.2	U	0.2	U	0.20	U	NS		0.2	U
	16-Jan-19	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	12-Apr-19	NS		0.04	U	NS		NS		0.04	U	NS		0.051	U	0.061	U	0.061	U	NS		0.061	U
	29-Jul-19	0.061	U	NS		0.24		0.04	U	NS		0.13		NS		NS		0.04	U	1.1		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.061	U	NS	
	29-Oct-19	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	0.04	U	0.2 ^D	U	0.2 ^D	U	NS	
	21-Jan-20	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	22-Apr-20	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		0.04	U
	23-Jul-20	0.04	U	NS		0.04	U	0.04	U	NS		0.081	U	NS		NS		0.081	U	0.081	U	NS	
	29-Oct-20	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		0.04	U
	19-Jan-21	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		0.04	U	0.061 ^F	U	NS	
	15-Apr-21	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		0.04	U
	21-Jul-21	0.04	U	NS		0.11		0.04	U	NS		NS		NS		NS		0.04	U	NS		NS	
	20-Oct-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	NS		NS		NS	
	9-Feb-22	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		0.04	U	NS		NS	
	7-Apr-22	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		NS	
	28-Jul-22	0.04	U	NS		0.04	U	0.04	U	NS		0.42		NS		NS		0.04	U	NS		NS	
	18-Oct-22	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		NS	
	24-Jan-23	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		NS	
19-Apr-23	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		NS		
5-Jul-23	NS		NS		NS		0.04	U	NS		NS		NS		NS		NS		NS		NS		
18-Jul-23	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		NS		
25-Oct-23	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.061	U	0.061	U	NS		NS		
9-Jan-24	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		0.04	U	NS		NS		
25-Apr-24	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		0.04	U	NS		NS		
4-Sep-24	0.04	U	NS		0.04	U	0.04	U	NS		NS		0.04	U	NS		0.13		0.04	U	NS		
15-Oct-24	NS		0.079	U	NS		NS		NS		0.079	U	NS		0.079	U	0.079	U	NS		0.079	U	
1,2-Dichloroethane	10-Jan-18	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		0.04	U	NS		0.04	U	NS	
	11-Apr-18	NS		0.081	U	NS		NS		0.81 ^D	U	NS		0.81 ^D	U	NS		0.087		NS		0.81 ^D	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.061	U	NS	
	27-Jul-18	0.20	U	NS		0.20	U	0.20	U	NS		0.20	U	NS		NS		0.20	U	0.20	U	NS	
	24-Oct-18	NS		0.2	U	NS		NS		0.2	U	NS		0.2	U	NS		0.20	U	NS		0.2	U
	16-Jan-19	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	12-Apr-19	NS		0.04	U	NS		NS		0.04	U	NS		0.051	U	0.061	U	0.061	U	NS		0.061	U
	29-Jul-19	0.061	U	NS		0.061	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.061	U	NS	
	29-Oct-19	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.2 ^D	U	0.2 ^D	U	NS	
	21-Jan-20	0.04	U	NS		0.04	U	0.04	U	NS		0.05		NS		NS		0.04	U	NS		NS	
	22-Apr-20	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		NS	
	23-Jul-20	0.04	U	NS		0.04	U	0.04	U	NS		0.081	U	NS		NS		0.081	U	0.081	U	NS	
	29-Oct-20	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		NS	
	19-Jan-21	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		0.04	U	0.061 ^F	U	NS	
	15-Apr-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		0.04	U	NS		NS	
	21-Jul-21	0.045		NS		0.055		NS		NS		0.062		NS		NS		0.053	U	0.074	U	NS	
	20-Oct-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		0.042	U	NS		NS	
	9-Feb-22	0.04	U	NS		NS	U	0.049		NS		0.047		NS		NS		0.055		0.053		NS	
	7-Apr-22	NS		0.05		NS		NS		NS	U	NS		NS		NS		0.068		NS		0.079	
	28-Jul-22	0.04	U	NS		NS	U	0.04		NS		0.											

Summary of Subslab Air Sampling Data
Alvarez School
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Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
1,1-Dichloroethene	10-Jan-18	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U
	11-Apr-18	NS		0.079	U	NS		NS		0.79	U	NS		0.79	U	0.79	U	0.079	U	NS		0.79	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.059	U	NS	
	27-Jul-18	0.20	U	NS		0.20	U	0.20	U	NS		0.20	U	NS		NS		0.20	U	0.20	U	NS	
	24-Oct-18	NS		0.2	U	NS		NS		0.2	U	NS		0.2	U	0.2	U	0.20	U	NS		0.2	U
	16-Jan-19	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	12-Apr-19	NS		0.04	U	NS		NS		0.04	U	NS		0.05	U	0.059	U	0.059	U	NS		0.059	U
	29-Jul-19	0.059	U	NS		0.059	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.059	U	NS	
	29-Oct-19	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	0.2 ¹⁹	U	0.2 ¹⁹	U	NS		0.2 ¹⁹	U
	21-Jan-20	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	22-Apr-20	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	23-Jul-20	0.04	U	NS		0.04	U	0.04	U	NS		0.079	U	NS		NS		0.079	U	0.079	U	NS	
	29-Oct-20	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	19-Jan-21	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.059 ⁸	U	NS	
	15-Apr-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	21-Jul-21	0.079	U	NS		0.079	U	0.079	U	NS		0.079	U	NS		NS		0.079	U	0.079	U	NS	
	20-Oct-21	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U	NS		0.04	U	NS		0.04	U
	9-Feb-22	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	7-Apr-22	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	28-Jul-22	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	18-Oct-22	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	24-Jan-23	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	19-Apr-23	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	5-Jul-23	NS		NS		NS		0.04	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		0.04	U	0.04	U	NS	
	25-Oct-23	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.059	U	0.059	U	NS		0.04	U
	9-Jan-24	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		NS	U	0.04	U	NS	
	25-Apr-24	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		NS	U	NS		0.04	U
	4-Sep-24	0.04	U	NS		0.04	U	0.04	U	NS		NS		NS		NS		NS	U	NS		0.04	U
	15-Oct-24	NS		0.079	U	NS		NS		NS		0.079	U	NS		0.079	U	0.079	U	NS		0.079	U
cis-1,2-Dichloroethene*	10-Jan-18	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		0.04	U
	11-Apr-18	NS		0.079	U	NS		NS		0.79	U	NS		0.79	U	0.79	U	0.079	U	NS		0.79	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.059	U	NS	
	27-Jul-18	0.20	U	NS		0.20	U	0.20	U	NS		0.20	U	NS		NS		0.20	U	0.20	U	NS	
	24-Oct-18	NS		0.2	U	NS		NS		0.2	U	NS		0.2	U	0.2	U	0.20	U	NS		0.2	U
	16-Jan-19	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	12-Apr-19	NS		0.04	U	NS		NS		0.04	U	NS		0.05	U	0.059	U	0.059	U	NS		0.059	U
	29-Jul-19	0.059	U	NS		0.059	U	0.071	U	NS		0.062		NS		NS		0.059	U	NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.059	U	NS	
	29-Oct-19	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		0.2 ¹⁹	U	0.2 ¹⁹	U	NS	
	21-Jan-20	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		NS	U	0.04	U	NS	
	22-Apr-20	NS		0.04	U	NS		NS		0.04	U	NS		NS		NS		0.04	U	NS		0.04	U
	23-Jul-20	0.04	U	NS		0.04	U	0.04	U	NS		0.079	U	NS		NS		0.079	U	0.079	U	NS	
	29-Oct-20	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	19-Jan-21	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.059 ⁸	U	NS	
	15-Apr-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	21-Jul-21	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	NS		NS	
	20-Oct-21	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	9-Feb-22	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	7-Apr-22	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	28-Jul-22	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	18-Oct-22	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	24-Jan-23	0.04	U	NS		0.04	U	0.04	U	NS		0.04	U	NS		NS		0.04	U	0.04	U	NS	
	19-Apr-23	NS		0.04	U	NS		NS		0.04	U	NS		NS		0.04	U	0.04	U	NS		0.04	U
	5-Jul-23	NS		NS		NS		0.04	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.057	U	NS		0.04																	

Summary of Subslab Air Sampling Data
Alvarez School
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Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3	
		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual	
1,2-Dichloropropane	10-Jan-18	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	NS		0.046	U
	11-Apr-18	NS		0.092	U	NS		NS		0.92 ^U	U	NS		0.92 ^U	U	0.92 ^U		0.092	U	NS		0.92 ^U	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.069	U	NS	
	27-Jul-18	0.23	U	NS		0.23	U	0.23	U	NS		0.23	U	NS		0.23		0.23	U	NS		0.23	U
	24-Oct-18	NS		0.23	U	NS		NS		0.23	U	NS		0.23	U	0.23		0.23	U	NS		0.23	U
	16-Jan-19	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	0.046	U	NS	
	12-Apr-19	NS		0.046	U	NS		NS		0.046	U	NS		0.058	U	0.069		0.069	U	NS		0.069	U
	29-Jul-19	0.069	U	NS		0.069	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.069	U	NS	
	29-Oct-19	NS		0.046	U	NS		NS		0.046	U	NS		0.046	U	0.046		0.23 ^U	U	0.23 ^U	U	0.23 ^U	U
	21-Jan-20	0.05	U	NS		0.05	U	0.05	U	NS		0.05	U	NS		NS		0.05	U	NS		NS	
	22-Apr-20	NS		0.092 ^L	U	NS		NS		0.092 ^L	U	NS		0.092 ^L	U	0.092 ^L		0.092 ^L	U	NS		0.092 ^L	U
	23-Jul-20	0.046	U	NS		0.046	U	0.046	U	NS		0.092	U	NS		NS		NS	U	0.092	U	NS	
	29-Oct-20	NS		0.046	U	NS		NS		0.046	U	NS		0.046	U	0.046		0.046	U	NS		0.046	U
	19-Jan-21	0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		0.092	U	NS		NS	
	15-Apr-21	NS		0.046	U	NS		NS		NS		0.046	U	NS		0.046		0.046	U	NS		0.046	U
	21-Jul-21	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	NS		NS	
	20-Oct-21	NS		0.046	U	NS		NS		NS		0.046	U	NS		NS		0.046	U	NS		0.046	U
	9-Feb-22	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	NS		NS	
	7-Apr-22	NS		0.046	U	NS		NS		NS		NS		NS		0.046		0.046	U	NS		0.046	U
	28-Jul-22	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	0.046	U	NS	
	18-Oct-22	NS		0.046	U	NS		NS		NS		0.046	U	NS		0.046		0.046	U	NS		0.046	U
	24-Jan-23	0.046	U	NS		0.046	U	0.046	U	NS		NS		0.046	U	NS		0.046	U	0.054		NS	
	19-Apr-23	NS		0.046	U	NS		NS		NS		NS		NS		0.046	U	0.046	U	NS		0.046	U
	5-Jul-23	NS		NS		NS		0.059		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.046	U	NS		0.046	U	NS		NS		0.11		NS		NS		0.07		0.096		NS	
	25-Oct-23	NS		0.11		NS		NS		NS		0.078		NS		0.069	U	0.094	U	NS		0.046	U
	9-Jan-24	0.046	U	NS		0.046	U	0.046	U	NS		0.046	U	NS		NS		0.046	U	0.046	U	NS	
	25-Apr-24	NS		0.046	U	NS		NS		NS		0.046	U	NS		0.046	U	0.046	U	NS		0.046	U
	4-Sep-24	0.046	U	NS		0.046	U	0.046	U	NS		NS		0.046	U	NS		0.046	U	NS		NS	
	15-Oct-24	NS		0.092	U	NS		NS		NS		0.092	U	NS		0.092	U	0.092	U	NS		0.092	U
cis-1,3-Dichloropropene	10-Jan-18	0.045	U	NS		0.045	U	0.045	U	NS		0.045	U	NS		NS		0.045	U	NS		0.045	U
	11-Apr-18	NS		0.091	U	NS		NS		0.91	U	NS		0.91	U	0.91		0.091	U	NS		0.91	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.068	U	NS	
	27-Jul-18	0.23	U	NS		0.23	U	0.23	U	NS		0.23	U	NS		0.23		0.23	U	NS		0.23	U
	24-Oct-18	NS		0.23	U	NS		NS		0.23	U	NS		0.23	U	0.23		0.23	U	NS		0.23	U
	16-Jan-19	0.045	U	NS		0.045	U	0.045	U	NS		0.045	U	NS		NS		0.045	U	0.045	U	NS	
	12-Apr-19	NS		0.045	U	NS		NS		0.045	U	NS		0.057	U	0.068		0.068	U	NS		0.068	U
	29-Jul-19	0.068	U	NS		0.068	U	0.045	U	NS		0.045	U	NS		NS		0.045	U	0.045	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.068	U	NS	
	29-Oct-19	NS		0.045	U	NS		NS		0.045	U	NS		NS		NS		0.23 ^U	U	0.23 ^U	U	0.23 ^U	U
	21-Jan-20	0.05	U	NS		0.05	U	0.05	U	NS		0.05	U	NS		NS		0.05	U	NS		NS	
	22-Apr-20	NS		0.045 ^L	U	NS		NS		0.045 ^L	U	NS		NS		0.045 ^L	U	0.045 ^L	U	NS		0.045 ^L	U
	23-Jul-20	0.045	U	NS		0.045	U	0.045	U	NS		0.091	U	NS		NS		0.091	U	NS		NS	
	29-Oct-20	NS		0.045	U	NS		NS		0.045	U	NS		NS		0.045	U	0.045	U	NS		0.045	U
	19-Jan-21	0.045	U	NS		0.045	U	0.045	U	NS		NS		NS		NS		0.045	U	0.068 ^F	U	NS	
	15-Apr-21	NS		0.045	U	NS		NS		0.045	U	NS		NS		0.045	U	0.045	U	NS		0.045	U
	21-Jul-21	0.045	U	NS		0.045	U	0.045	U	NS		NS		NS		NS		0.045	U	0.045	U	NS	
	20-Oct-21	NS		0.045	U	NS		NS		NS		0.045	U	NS		NS		0.045	U	NS		0.045	U
	9-Feb-22	0.045	U	NS		0.045	U	0.045	U	NS		NS		NS		NS		0.045	U	0.045	U	NS	
	7-Apr-22	NS		0.045	U	NS		NS		NS		NS		NS		NS		0.045	U	NS		0.045	U
	28-Jul-22	0.045	U	NS		0.045	U	0.045	U	NS		NS		NS		NS		0.045	U	0.045	U	NS	
	18-Oct-22	NS		0.045	U	NS		NS		NS		0.045	U	NS		NS		0.045	U	NS		0.045	U
	24-Jan-23	0.045	U	NS		0.045	U	0.045	U	NS		NS		NS		NS		0.045	U	0.045	U	NS	
	19-Apr-23	NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS		NS	

Summary of Subslab Air Sampling Data
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Volatile Organic Compounds via TO-15		Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Ethylbenzene	10-Jan-18	0.5	NS		NS		0.11		0.22		NS		0.19		NS		NS		0.94		NS		0.4	
	11-Apr-18	NS			0.13		NS		NS		0.87	U	NS		0.87	U	0.87	U	0.37		NS		0.87	U
	23-May-18	NS			NS		NS		NS		NS		NS		NS		NS		NS		0.19		NS	
	27-Jul-18	0.43	U		NS		0.43	U	0.43	U	NS		0.43	U	NS		NS		0.43	U	0.43	U	NS	
	24-Oct-18	NS			0.43	U	NS		NS		0.43	U	NS		0.7		0.43	U	0.49		NS		0.43	U
	16-Jan-19	0.51			NS		0.087	U	0.11		NS		0.13		NS		NS		0.26		0.31		NS	
	12-Apr-19	NS			0.1		NS		NS		0.11		NS		0.11	U	0.2		0.19		NS		0.37	
	29-Jul-19	3.6			NS		3.7		4.6		NS		5.5		NS		NS		2.4		3.3		NS	
	26-Sep-19	NS			NS		NS		NS		NS		NS		NS		NS		NS		1.4		NS	
	29-Oct-19	NS			0.64		NS		NS		0.48		NS		0.2		0.66		1.1 ^U		1.6 ^U		0.97 ^U	
	21-Jan-20	0.24			NS		0.30		0.27		NS		0.19		NS		NS		NS		0.92		NS	
	22-Apr-20	NS			0.087	U	NS		NS		0.087	U	NS		0.087	U	0.087	U	0.29		NS		0.39	
	23-Jul-20	0.92			NS		0.29		0.27		NS		0.4		NS		NS		0.71		1.3		NS	
	29-Oct-20	NS			0.19		NS		NS		0.2		NS		0.16		0.27		0.43		NS		0.68	
	19-Jan-21	0.15			NS		0.087	U	0.087	U	NS		0.087	U	NS		NS		0.28		0.31 ^U		NS	
	15-Apr-21	NS			0.087	U	NS		NS		0.087	U	NS		0.087	U	0.087	U	0.18		NS		0.094	
	21-Jul-21	2.5			NS		2.7		0.97		NS		6		NS		NS		1.1		2.7		NS	
	20-Oct-21	NS			0.097		NS		NS		0.11		NS		0.12		NS		0.24		NS		0.24	
	9-Feb-22	0.087	U		NS		0.087	U	0.087	U	NS		0.087	U	NS		NS		0.33		0.43		NS	
	7-Apr-22	NS			1.2		NS		NS		1.4		NS		1.5		1.1		0.4		NS		0.53	
	28-Jul-22	0.54			NS		0.8		0.86		NS		1.1		NS		NS		0.4		0.63		NS	
	18-Oct-22	NS			0.34		NS		NS		0.44		NS		0.65		0.62		0.45		NS		0.62	
	24-Jan-23	0.087	U		NS		0.29		0.39		NS		0.22		NS		NS		0.39		0.61		NS	
	19-Apr-23	NS			6		NS		NS		NS		NS		5.8		5.1		6.9		NS		1.6	
	5-Jul-23	NS			NS		NS		0.12		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	1.3			NS		0.3		0.28		NS		4.2		NS		NS		2		2.3		NS	
	25-Oct-23	NS			0.85		NS		NS		0.93		NS		0.86		0.93		0.63		NS		0.87	
	9-Jan-24	0.12			NS		0.19		0.11		NS		0.2		NS		NS		0.29		0.5		NS	
	25-Apr-24	NS			0.18		NS		NS		0.4		NS		0.61		0.54		0.97		NS		1.1	
	4-Sep-24	0.56			NS		1.2		0.56		NS		0.6		NS		NS		0.36		0.58		NS	
	15-Oct-24	NS			0.087		NS		NS		0.182		NS		0.169		0.195		0.191		NS		0.408	
Isopropylbenzene	10-Jan-18	0.25	U	NS	U	0.25	U	0.25	U	NS	U	0.25	U	NS	U	NS	U	0.25	U	NS	U	0.25	U	
	11-Apr-18	NS		0.25	U	NS		NS		2.5	U	NS		2.5	U	NS	U	0.25	U	NS		2.5	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS	U	NS		0.37	U	NS		
	27-Jul-18	1.2	U	NS		1.2	U	1.2	U	NS		1.2	U	NS		NS	U	1.2	U	NS	U	NS		
	24-Oct-18	NS		1.2	U	NS		NS		1.2	U	NS		1.2	U	NS	U	1.2	U	NS		1.2	U	
	16-Jan-19	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
	12-Apr-19	NS		0.25	U	NS		NS		0.25	U	NS		0.31	U	0.37	U	0.37	U	NS	U	0.37	U	
	29-Jul-19	0.37	U	NS		0.37	U	0.25	U	NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS	U	NS		0.37	U	NS		
	29-Oct-19	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25	U	1.2 ^U	U	1.2 ^U	U	1.2 ^U	U	
	21-Jan-20	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
	22-Apr-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS	U	0.25	U	NS		0.25	U	
	23-Jul-20	0.25	U	NS		0.25	U	NS		NS		0.5	U	NS		NS	U	0.5	U	NS	U	NS		
	29-Oct-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS	U	0.25	U	NS		0.25	U	
	19-Jan-21	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	U	0.25	U	0.37 ^U	U	NS		
	15-Apr-21	NS		0.25	U	NS		NS		0.25	U	NS		NS		0.25	U	0.25	U	NS		0.25	U	
	21-Jul-21	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
	20-Oct-21	NS		0.25	U	NS		NS		NS		0.25	U	NS		0.25	U	NS	U	NS		0.25	U	
	9-Feb-22	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	0.25	U	NS	U	NS		
	7-Apr-22	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS	U	NS		
	28-Jul-22	0.25	U	NS		0.5	U	0.5	U	NS		0.5	U	NS		NS	U	0.75	U	0.5	U	NS		
	18-Oct-22	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS	U	NS		
	24-Jan-23	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
19-Apr-23	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS		0.25	U		
5-Jul-23	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS			
18-Jul-23	0.25	U	NS		0.25	U	NS		NS		0.54		NS		NS		NS	U	0.25	U	NS			
25-Oct-23	NS		0.25	U	NS		NS		NS		0.25	U	NS		0.37	U	0.37	U	NS		0.25	U		
9-Jan-24	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	NS	U	0.25	U	NS			
25-Apr-24	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS		0.25	U		
4-Sep-24	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	NS	U	0.25	U	NS			
15-Oct-24	NS		0.983	U	NS		NS		NS		0.983	U	NS		0.983	U	0.983	U	0.983	U	NS		0.983	U
p-Isopropyltoluene	10-Jan-18	0.25	U	NS	U	0.25	U	0.25	U	NS	U	0.25	U	NS	U	NS	U	0.25	U	NS	U	0.25	U	
	11-Apr-18	NS		0.25	U	NS		NS		2.5	U	NS		NS		NS	U	0.25	U	NS		2.5	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS		
	27-Jul-18	1.3	U	NS		1.3	U	1.3	U	NS		1.3	U	NS		NS	U	1.3	U	NS	U	NS		
	24-Oct-18	NS		1.3	U	NS		NS		1.3	U	NS		1.3	U	1.3	U	1.3	U	NS	U	1.3	U	
	16-Jan-19	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS	U	0.25	U	NS	U	NS		
	12-Apr-19	NS		0.25	U	NS		NS		0.25	U	NS		0.31	U	0.38	U	NS	U	NS		0.41		
	29-Jul-19	0.38	U	NS		0.38	U	0.26		NS		0.31		NS		NS	U	0.25	U	NS	U	NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.38	U	NS		
	29-Oct-19	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS	U	1.3 ^U	U	1.3 ^U	U	1.3 ^U	U	
	21-Jan-20	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	0.25	U	NS		NS		
	22-Apr-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS	U	0.25	U	NS		0.25	U	
	23-Jul-20	0.25	U	NS		0.25 ^{NA}	U	NS		NS		0.5	U	NS		NS	U	0.5	U	NS		NS		
	29-Oct-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	NS	U	0.25	U	NS		0.25	U	
	19-Jan-21	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	0.25	U	0.38 ^U	U	NS		
	15-Apr-21	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS		0.25	U	
	21-Jul-21	0.5	U	NS		0.5	U	0.5	U	NS		NS		NS		NS	U	0.5	U	NS	U	NS		
	20-Oct-21	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS		0.25	U	
	9-Feb-22	0.25	U	NS		0.25	U	NS		NS		NS		NS		NS	U	0.25	U	NS	U	NS		
	7-Apr-22	NS		0.25	U	NS		NS		NS		NS		NS		NS	U	0.25	U	NS	U	NS		
	28-Jul-22	0.25	U																					

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Methyl tert butyl ether (MTBE)	10-Jan-18	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U
	11-Apr-18	NS		0.072	U	NS		NS		0.72	U	NS		0.72	U	0.72		0.072	U	NS		0.72	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.11	U	NS	
	27-Jul-18	0.36	U	NS		0.36	U	0.36	U	NS		0.36	U	NS		NS		0.36	U	0.36	U	NS	
	24-Oct-18	NS		0.36	U	NS		NS		0.36	U	NS		0.36	U	0.36		0.36	U	NS		0.36	U
	16-Jan-19	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	0.072	U	NS	
	12-Apr-19	NS		0.072	U	NS		NS		0.072	U	NS		0.09	U	0.11		0.11	U	NS		0.11	U
	29-Jul-19	0.11	U	NS		0.11	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	1		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	U	NS	
	29-Oct-19	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	0.072		0.36 ^U	U	0.36 ^U	U	0.36 ^U	U
	21-Jan-20	0.07	U	NS		0.07	U	0.07	U	NS		0.07	U	NS		NS		NS	U	NS		NS	
	22-Apr-20	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	NS		0.072	U	NS		0.072	U
	23-Jul-20	0.072	U	NS		0.072	U	0.072	U	NS		0.14	U	NS		NS		0.14	U	NS		NS	
	29-Oct-20	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	0.072		0.072	U	NS		0.072	U
	19-Jan-21	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	0.11 ^U	U	NS	
	15-Apr-21	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	0.072		0.072	U	NS		0.072	U
	21-Jul-21	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	NS		NS	
	20-Oct-21	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	NS		0.072	U	NS		0.072	U
	9-Feb-22	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	NS		NS	
	7-Apr-22	NS		0.13		NS		NS		0.072	U	NS		0.072	U	NS		0.072	U	NS		0.072	U
	28-Jul-22	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	0.072	U	NS	
	18-Oct-22	NS		0.14	U	NS		NS		0.14	U	NS		0.14	U	NS		0.14	U	NS		0.14	U
	24-Jan-23	0.072	U	NS		0.072	U	0.072	U	NS		0.072	U	NS		NS		0.072	U	0.072	U	NS	
	19-Apr-23	NS		0.072	U	NS		NS		0.072	U	NS		0.072	U	NS		0.072	U	NS		0.072	U
	5-Jul-23	NS		NS		NS		NS		0.072	U	NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.072	U	NS		0.072	U	0.072	U	NS		NS		NS		NS		NS	U	0.072	U	NS	
	25-Oct-23	NS		0.072	U	NS		NS		0.072	U	NS		0.11	U	0.11		0.072	U	NS		0.072	U
	9-Jan-24	0.072	U	NS		0.072	U	NS		NS		0.072	U	NS		NS		0.072	U	0.072	U	NS	
	25-Apr-24	NS		0.072	U	NS		NS		NS		0.072	U	NS		0.072		0.072	U	NS		0.13	
	4-Sep-24	0.072	U	NS		0.072	U	NS		NS		0.072	U	NS		NS		0.072	U	NS		NS	
	15-Oct-24	NS		0.721	U	NS		NS		NS		0.721	U	NS		0.721		0.721	U	NS		0.721	U
Methylene chloride	10-Jan-18	0.78		NS		0.69	U	0.69	U	NS		1.1		NS		NS		1.1		NS		0.69	U
	11-Apr-18	NS		0.69	U	NS		NS		6.9 ^U	U	NS		8.8 ^U	U	NS		1.7		NS		6.9 ^U	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		1	U	NS	
	27-Jul-18	3.5	U	NS		3.5	U	3.5	U	NS		3.5	U	NS		NS		3.5	U	3.5	U	NS	
	24-Oct-18	NS		3.5	U	NS		NS		3.5	U	NS		3.5	U	3.5		3.5	U	NS		3.5	U
	16-Jan-19	0.69	U	NS		0.69	U	0.69	U	NS		1.6		NS		NS		1.1		0.69	U	NS	
	12-Apr-19	NS		0.69	U	NS		NS		0.69	U	NS		0.87	U	NS		2.6		NS		1	U
	29-Jul-19	1	U	NS		1	U	0.69	U	NS		0.69	U	NS		NS		0.69		NS		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS	U	1	U	NS	
	29-Oct-19	NS		0.69	U	NS		NS		0.69	U	NS		0.69	U	1.8		3.5 ^U	U	3.5 ^U	U	3.5 ^U	U
	21-Jan-20	0.69	U	NS		0.69	U	NS		NS		NS		NS		NS		NS	U	NS		NS	
	22-Apr-20	NS		3.9		NS		NS		2.1		NS		1.7		3.8		2.7		NS		4.4	
	23-Jul-20	5		NS		0.69	U	NS		NS		2.2		NS		NS		1.4	U	NS		NS	
	29-Oct-20	NS		0.9		NS		NS		1.4		NS		0.69	U	0.69		0.69	U	NS		0.69	U
	19-Jan-21	0.87		NS		1.8		0.69	U	NS		NS		NS		NS		1.9		1.1 ^U		NS	
	15-Apr-21	NS		0.85		NS		NS		0.8		NS		0.69	U	0.85		0.69	U	NS		0.69	U
	21-Jul-21	0.88		NS		0.98		1.6		NS		0.69		NS		NS		0.69	U	1.1		NS	
	20-Oct-21	NS		1.5		NS		NS		0.69	U	NS		NS		0.69		0.69	U	NS		0.69	U
	9-Feb-22	0.69	U	NS		0.69	U	0.69	U	NS		0.69		NS		NS		0.69	U	NS		NS	
	7-Apr-22	NS		0.69	U	NS		NS		NS		NS		NS		NS		0.69	U	NS		1.3	
	28-Jul-22	0.69	U	NS		1.2		1.1		NS		0.69		NS		NS		0.69	U	0.86		NS	
	18-Oct-22	NS		0.69	U	NS		NS		NS		NS		NS		NS		2.4		NS		0.7	
	24-Jan-23	0.69	U	NS		0.69	U	0.69	U	NS		0.69		NS		NS		0.69	U	0.69	U	NS	
	19-Apr-23	NS		0.69	U	NS		NS		NS		NS		NS		NS		0.69	U	NS		0.69	U
	5-Jul-23	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.69	U	NS		0.69	U	NS		NS		NS		NS		NS		0.69	U	NS		NS	
	25-Oct-23	NS		0.69	U																		

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Styrene	10-Jan-18	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.18		NS		0.82	
	11-Apr-18	NS		0.085	U	NS		NS		0.85	U	NS		0.85	U	0.85		0.085	U	NS		0.85	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.42		NS	
	27-Jul-18	0.43	U	NS		0.43	U	0.43	U	NS		0.43	U	NS		NS		0.68		0.43	U	NS	
	24-Oct-18	NS		0.43	U	NS		NS		0.43	U	NS		0.43	U	0.43		0.43	U	NS		0.43	U
	16-Jan-19	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.25		NS		NS	
	12-Apr-19	NS		0.11		NS		NS		0.085	U	NS		0.11	U	0.16		0.42		NS		0.88	
	29-Jul-19	0.61		NS		0.78		1.1		NS		1.3		NS		NS		0.48		NS		2.8	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.43		NS	
	29-Oct-19	NS		0.085	U	NS		NS		0.19		NS		0.085	U	0.085	U	0.43 ^U	U	0.43 ^U	U	3.6 ^U	U
	21-Jan-20	0.09	U	NS		0.16		0.22		NS		0.12		NS		NS		0.42		1.20		NS	
	22-Apr-20	NS		0.085	U	NS		NS		0.085	U	NS		0.085	U	0.085	U	0.12		NS		0.28	
	23-Jul-20	0.25		NS		0.085	U	0.085	U	NS		0.34		NS		NS		0.54		NS		NS	
	29-Oct-20	NS		0.12		NS		NS		0.13		NS		0.11		0.13		0.26		NS		0.4	
	19-Jan-21	0.085	U	NS		0.085	U	0.085	U	NS		0.085	U	NS		NS		0.17		0.36 ^U		NS	
	15-Apr-21	NS		0.1		NS		NS		0.085	U	NS		0.085	U	0.12		0.17		NS		0.11	
	21-Jul-21	0.36		NS		NS		0.39		0.41		0.78		NS		NS		0.41		1		NS	
	20-Oct-21	NS		0.087		NS		NS		0.12		NS		0.12		0.11		0.26		NS		0.2	
	9-Feb-22	0.16		NS		0.14		0.26		NS		0.21		NS		NS		0.92		NS		NS	
	7-Apr-22	NS		0.17		NS		NS		0.18		NS		0.17		0.16		0.35		NS		0.51	
	28-Jul-22	0.76		NS		1.5		1.2		NS		1.1		NS		NS		0.55		0.65		NS	
	18-Oct-22	NS		0.31 ^U		NS		NS		0.49 ^U		NS		0.67 ^U		0.54 ^U		0.42 ^U		NS		0.63 ^U	
	24-Jan-23	0.085	U	NS		0.47		0.51		NS		0.13		NS		NS		0.35		0.79		NS	
	19-Apr-23	NS		1.7		NS		NS		NS		NS		1.7		1.5		2.6		NS		0.5	
	5-Jul-23	NS		NS		NS		0.12		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.43		NS		0.43		0.32		NS		NS		NS		NS		4.6		NS		NS	
	25-Oct-23	NS		1.7		NS		NS		1.8		NS		2		1.7		0.82		NS		2.3	
	9-Jan-24	0.085	U	NS		0.11		0.12		NS		0.32		NS		NS		0.16		NS		NS	
	25-Apr-24	NS		0.085	U	NS		NS		0.085	U	NS		0.085	U	0.085	U	0.36		NS		1.1	
	4-Sep-24	0.13		NS		0.43		0.37		NS		0.29		NS		NS		0.12		NS		NS	
	15-Oct-24	NS		0.085	U	NS		NS		0.085	U	NS		0.085	U	0.085	U	0.085	U	NS		0.209	
1,1,1,2-Tetrachloroethane	10-Jan-18	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U
	11-Apr-18	NS		0.25	U	NS		NS		2.5	U	NS		2.5	U	2.5		0.25	U	NS		2.5	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.37	U	NS	
	27-Jul-18	1.2	U	NS		1.2	U	1.2	U	NS		1.2	U	NS		NS		1.2	U	1.2	U	NS	
	24-Oct-18	NS		1.2	U	NS		NS		1.2	U	NS		1.2	U	1.2		1.2	U	NS		1.2	U
	16-Jan-19	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	12-Apr-19	NS		0.25	U	NS		NS		0.25	U	NS		0.31	U	0.37		0.37	U	NS		0.37	U
	29-Jul-19	0.37	U	NS		0.37	U	0.25 ⁺	U	NS		0.25 ⁺	U	NS		NS		0.25 ⁺	U	0.25 ⁺	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.37	U	NS	
	29-Oct-19	NS		0.25 ⁺	U	NS		NS		0.25 ⁺	U	NS		0.25 ⁺	U	0.25 ⁺		1.2 ^{+,U}	U	1.2 ^{+,U}	U	1.2 ^{+,U}	U
	21-Jan-20	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		0.25		0.25	U	NS		0.25	
	22-Apr-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	23-Jul-20	0.25	U	NS		0.25	U	0.25	U	NS		0.5	U	NS		NS		0.5	U	NS		NS	
	29-Oct-20	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	19-Jan-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.37 ^U	U	NS	
	15-Apr-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	21-Jul-21	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	20-Oct-21	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	9-Feb-22	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	7-Apr-22	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	28-Jul-22	0.25	U	NS		0.5	U	0.5	U	NS		0.5	U	NS		NS		0.75	U	0.5	U	NS	
	18-Oct-22	NS		0.25	U	NS		NS		0.25	U	NS		0.25	U	0.25		0.25	U	NS		0.25	U
	24-Jan-23	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	19-Apr-23	NS		0.25 ⁺	U	NS		NS		0.25 ⁺	U	NS		0.25 ⁺	U	0.25 ⁺	U	0.25 ⁺	U	NS		0.25 ⁺	U
	5-Jul-23	NS		NS		NS		0.25	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	25-Oct-23	NS		0.25	U	NS		NS		0.25	U	NS		0.37	U	0.37		0.25	U	NS		0.25	U
	9-Jan-24	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	NS		NS	
	25-Apr-24	NS		0.25 ^U	U	NS		NS		0.25 ^U	U	NS		0.25 ^U	U	0.25 ^U	U	0.25 ^U	U	NS		0.25 ^U	U
	4-Sep-24	0.25	U	NS		0.25	U	0.25	U	NS		0.25	U	NS		NS		0.25	U	0.25	U	NS	
	15-Oct-24	NS		0.137	U	NS		NS		0.137	U	NS		0.137	U	0.137	U	0.137	U	NS		0.137	U
1,1,2,2-Tetrachloroethane	10-Jan-18	0.069	U	NS		0.069	U	0.069	U	NS		0.069	U	NS		NS		0.069	U	NS		0.069	U
	11-Apr-18	NS		0.14	U	NS		NS		1.4	U	NS		1.4	U	1.4		0.14	U	NS		1.4	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1	U	NS	
	27-Jul-18	0.34	U	NS		0.34	U	0.34	U	NS		0.34	U	NS		NS		0.34	U	0.34	U	NS	
	24-Oct-18	NS		0.34	U	NS		NS		0.34	U	NS		0.34	U	0.34		0.34	U	NS		0.34	U
	16-Jan-19	0.069	U	NS		0.069	U	0.069	U	NS		0.069	U	NS		NS		0.069	U	0.069	U	NS	
	12-Apr-19	NS		0.069	U	NS		NS		0.069	U	NS		0.086	U	0.1		0.1	U	NS		0.1	U
	29-Jul-19	0.1	U	NS		0.1	U	0.069	U	NS		0.069	U	NS		NS		0.069	U	0.069	U	NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1	U	NS	
	29-Oct-19	NS		0.069	U	NS		NS		0.22		NS		0.069	U	0.069		0.34 ^U	U	0.34 ^U	U	0.34 ^U	U
	21-Jan-20	0.07	U	NS		0.07	U	0.07	U	NS		0.07	U	NS		NS		0.07	U	NS		NS	
	22-Apr-20	NS		0.069	U	NS		NS		0.069	U	NS		0.069	U	0.069		0.069	U	NS		0.069	U

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
Tetrachloroethene*	10-Jan-18	0.21	U	NS		0.15	U	0.64		NS		2	U	NS	U	NS	U	0.33	U	NS		4.9	U
	11-Apr-18	NS		10		NS		NS		1.8		NS		1.4		0.24		NS		2			
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		1.4		NS			
	27-Jul-18	0.68		NS		0.68		2.5		NS		2.2		NS		0.68		U		NS			
	24-Oct-18	NS		6.1		NS		NS		6.8		NS		0.68		0.68		U		0.68			
	16-Jan-19	0.44		NS		0.27		0.97		NS		1.8		NS		NS		0.24		NS			
	12-Apr-19	NS		11		NS		NS		2.3		NS		0.29		0.2		U		NS			
	29-Jul-19	0.86		NS		0.92		1.4		NS		6.7		NS		NS		0.4		NS			
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		4.7			
	29-Oct-19	NS		21		NS		NS		7.2		NS		0.14		0.16		0.68 ^U		U		0.68 ^U	
	21-Jan-20	0.20		NS		0.14		0.41		NS		1.30		NS		NS		1.20		U		NS	
	22-Apr-20	NS	2	NS	NS	0.91	NS	0.14	U	0.14	U	0.53											
	23-Jul-20	0.74	NS	0.75	0.84	NS	4.5	NS	NS	0.84	NS	NS											
	29-Oct-20	NS	7.3	NS	NS	2.6	NS	0.44	1.6	0.44	NS	0.88											
	19-Jan-21	1.4	NS	0.14	0.27	NS	0.14	NS	NS	0.52	NS	NS											
	15-Apr-21	NS	2.2	NS	NS	0.56	NS	0.36	0.2	0.47	NS	0.26											
	21-Jul-21	0.29	NS	0.39	0.25	NS	0.43	NS	NS	0.33	NS	NS											
	20-Oct-21	NS	4.4	NS	NS	1.5	NS	0.16	0.14	0.25	NS	0.23											
	9-Feb-22	0.33	NS	0.14	0.21	NS	0.61	NS	NS	0.23	NS	NS											
	7-Apr-22	NS	1.7	NS	NS	0.16	NS	1.3	0.14	0.14	U	0.19											
	28-Jul-22	1.1	NS	0.23	0.28	NS	4.2	NS	NS	0.32	U	NS											
	18-Oct-22	NS	0.14	U	NS	NS	0.19	NS	0.32	NS	0.24	NS	0.28										
	24-Jan-23	0.31	NS		1	1.3	NS	0.73	NS	NS	1	NS	NS										
	19-Apr-23	NS	2.9		NS	NS	0.4	NS	0.14	0.17	0.14	U	0.14										
	5-Jul-23	NS	NS		NS	0.14	NS	NS	NS	NS	NS	NS	NS										
	18-Jul-23	0.58	NS		0.14	0.33	NS	0.6	NS	NS	0.28	NS	NS										
	25-Oct-23	NS	0.53		NS	NS	1.3	NS	0.73	0.7	0.67	NS	0.48										
	9-Jan-24	0.43	NS		0.16	0.19	NS	0.33	NS	NS	0.99	2	NS										
	25-Apr-24	NS	0.14		U	NS	NS	0.41	NS	0.14	U	0.14	0.14										
	4-Sep-24	0.37	NS		4.9	1.3	NS	0.55	NS	1.3	NS	0.19	NS										
	15-Oct-24	NS	0.136		U	NS	NS	3.78	NS	1.89	0.183	0.136	NS	0.264									
Toluene	10-Jan-18	0.88		NS		0.99		1.1		NS	U	1	U	NS	U	NS	U	2.4		NS		1.7	
	11-Apr-18	NS		0.61		NS		NS		0.75		NS		0.75		0.75		3.4		NS		1.9	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.72		NS	
	27-Jul-18	1.2		NS		1.9		0.75		NS		1.6		NS		NS		1.4		NS		NS	
	24-Oct-18	NS		0.49		NS		NS		0.38		NS		0.47		1.2		1.4		NS		1.5	
	16-Jan-19	1.4		NS		0.65		0.7		NS		0.77		NS		NS		1.6		NS		NS	
	12-Apr-19	NS		0.48		NS		NS		0.34		NS		0.24		1.1		1.5		NS		0.88	
	29-Jul-19	1.6		NS		2		1.9		NS		3.2		NS		NS		1.3		2.2		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		2.2		NS	
	29-Oct-19	NS		3		NS		NS		0.89		NS		0.79		3.4		2.7 ^U		4.5 ^U		2.7 ^U	
	21-Jan-20	0.82	NS	1.30	NS	1.50	NS	NS	NS	3.40	4.20	NS											
	22-Apr-20	NS	0.13	NS	NS	0.59	NS	0.081	U	0.46	1.1	NS											
	23-Jul-20	4.2	NS	2.8	2.3	NS	3.8	NS	NS	3.5	NS	NS											
	29-Oct-20	NS	0.92	NS	NS	0.9	NS	0.88	3.2	2	NS	2.5											
	19-Jan-21	0.59	NS	0.45	0.3	NS	0.4	NS	NS	1	0.69 ^U	NS											
	15-Apr-21	NS	0.47	NS	NS	0.41	NS	0.42	0.66	0.9	NS	0.63											
	21-Jul-21	1.5	NS	1.4	1.2	NS	2.8	NS	NS	1.8	3.1	NS											
	20-Oct-21	NS	0.84	NS	NS	1.1	NS	1	1.1	2	NS	1.7											
	9-Feb-22	0.33	NS	0.34	0.54	NS	0.34	NS	NS	1.7	3	NS											
	7-Apr-22	NS	1	NS	NS	0.77	NS	0.83	0.86	1.3	NS	1.6											
	28-Jul-22	1.8	NS	2.2	2.3	NS	3.2	NS	NS	1.6	2.4	NS											
	18-Oct-22	NS	3.1	NS	NS	5.2	NS	5.3	4.9	3	NS	4.2											
	24-Jan-23	0.87	NS	4.3	6.1	NS	3.5	NS	NS	5.5	9.7	NS											
	19-Apr-23	NS	7	NS	NS	5.3	NS	3.7	6.6	7.1	NS	2.8											
	5-Jul-23	NS	NS	NS	0.84	NS	NS	NS	NS	NS	NS	NS											
	18-Jul-23	3.3	NS	1.1	0.93	NS	30	NS	NS	13	19	NS											
	25-Oct-23	NS	5.5	NS	NS	5.3	NS	4.7	13	3.8	NS	3.4											
	9-Jan-24	0.94	NS	1.3	0.47	NS	1	NS	NS	2.6	3.5	NS											
	25-Apr-24	NS	0.32	NS	NS	0.32	NS	0.29	1.3	0.62	NS	0.64											
	4-Sep-24	2.9	NS	3.4	2.6	NS	1.7	NS	NS	1.3	1.6	NS											
	15-Oct-24	NS	0.897	NS	NS	NS	0.746	NS	0.377	U	0.377	U	2.19	NS	NS	1.1							
1,1,1-Trichloroethane*	10-Jan-18	0.055 ^U	U	NS		0.055 ^U	U	0.055 ^U	U	NS	U	0.29 ^U	U	NS	U	NS	U	0.055 ^U	U	NS	U	0.37 ^U	U
	11-Apr-18	NS	0.12	NS		NS	NS	NS	NS	NS		NS		NS		1.1							
	23-May-18	NS	NS	NS		NS	NS	NS	NS	NS		NS		NS		NS							
	27-Jul-18	0.27	NS	0.27		U	0.27	U	NS	NS		0.27		U		NS							
	24-Oct-18	NS	0.27	U		NS	U	0.27	U	NS		0.27		U		NS							
	16-Jan-19	0.055	U	NS		0.055	U	0.055	U	NS		NS		0.055		NS							
	12-Apr-19	NS	0.16	NS		NS	0.055	NS	U	NS		0.068		U		NS							
	29-Jul-19	0.082	U	NS		0.082	0.1	NS	0.36	NS		NS		0.082		NS							
	26-Sep-19	NS	NS	NS		NS	NS	NS	NS	NS		NS		0.076		NS							
	29-Oct-19	NS	0.22	NS		NS	NS	0.055	U	NS		0.055		U		NS							
	21-Jan-20	0.06	U	NS	0.06	U	0.06	U	NS	0.15	NS	0.24											
	22-Apr-20	NS	0.055	U	NS	NS	0.055	U	NS	0.055	U	NS											
	23-Jul-20	0.055	U	NS	0.055	U	0.055	U	NS	0.11	U	NS											
	29-Oct-20	NS	0.055	U	NS	NS	0.098	NS	0.055	U	NS	NS											
	19-Jan-21	0.055	U	NS	0.055	U	0.055	U	NS	0.055	U	NS											
	15-Apr-21	NS	0.055	U	NS	NS	NS	0.055	U	NS	U	NS											
	21-Jul-21	0.055	U	0.055	NS	0.055	U	NS	NS	0.055	U	NS											
	20-Oct-21	NS	0.13	NS	NS	NS	0.12	NS	0.055	U	NS	NS											
	9-Feb-22	0.055	U	NS	0.055	U	0.055	U	NS	0.11	NS	NS											
	7-Apr-22	NS	0.055	U	NS	NS	0.055	U	NS	0.055	U	NS											
	28-Jul-22	0.055	U	NS	0.055	U	0.055	U	NS	0.35	NS	NS											
	18-Oct-22	NS	0.055	U	NS	NS	0.055	U	NS	0.055	U	NS											
	24-Jan-23	0.055	U	NS	0.055	U	0.055	U	NS	0.055	U	NS											
	19-Apr-23	NS	0.083	U	NS	NS	0.055	U	NS	0.055	U	NS											
	5-Jul-23	NS	NS	NS	NS	0.055	NS	U	NS	NS	NS	NS											
	18-Jul-23	0.055	U	NS	0.055	U	0.055	U	NS	0.055	U	NS											
	25-Oct-23	NS	0.055	U	NS	NS	0.055	U	NS	0.082	U	NS											
	9-Jan-24	0.055	U	NS	0.055	U	0.055	U	NS	NS	NS	NS											
	25-Apr-24	NS	0.055	U	NS	NS	NS	U	0.055	NS	U	NS											
	4-Sep-24	0.055	U	NS	0.055	U	0.055	U	NS	NS	U	NS											
	15-Oct-24	NS	0.109	U	NS	NS	NS	0.136	NS	0.125	U	NS											

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Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
1,1,2-Trichloroethane	10-Jan-18	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U
	11-Apr-18	NS		0.11	U	NS		NS		1.1	U	NS		1.1	U	NS		0.11	U	NS		1.1	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.082	U	NS	
	27-Jul-18	0.27	U	NS		0.27	U	0.27	U	NS		0.27	U	NS		0.27		0.27	U	NS		0.27	U
	24-Oct-18	NS		0.27	U	NS		NS		0.27	U	NS		0.27	U	0.27		0.27	U	NS		0.27	U
	16-Jan-19	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	0.055		NS	
	12-Apr-19	NS		0.055	U	NS		NS		0.055	U	NS		0.068	U	0.082		0.082	U	NS		0.082	U
	29-Jul-19	0.082	U	NS		0.082	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		1.5	NS
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.082	U	NS	
	29-Oct-19	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.27 ^U	U	0.27 ^U		0.27 ^U	U
	21-Jan-20	0.06	U	NS		0.06	U	0.06	U	NS		0.06	U	NS		NS		0.06	U	NS		NS	
	22-Apr-20	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	23-Jul-20	0.055	U	NS		0.055	U	0.055	U	NS		0.11	U	NS		NS		0.11	U	NS		NS	
	29-Oct-20	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	19-Jan-21	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	0.082 ^F	U	NS	
	15-Apr-21	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	21-Jul-21	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		NS	
	20-Oct-21	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	9-Feb-22	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		NS	
	7-Apr-22	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	28-Jul-22	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	0.055		NS	
	18-Oct-22	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	NS		0.055	U	NS		0.055	U
	24-Jan-23	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	0.055		NS	
	19-Apr-23	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	NS		0.055	U	NS		0.055	U
	5-Jul-23	NS		NS		NS		0.055	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	0.055		NS	
	25-Oct-23	NS		0.055	U	NS		NS		0.055	U	NS		0.082	U	0.082		0.055	U	NS		0.055	U
	9-Jan-24	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		NS	
	25-Apr-24	NS		0.055	U	NS		NS		0.055	U	NS		0.055	U	0.055		0.055	U	NS		0.055	U
	4-Sep-24	0.055	U	NS		0.055	U	0.055	U	NS		0.055	U	NS		NS		0.055	U	NS		NS	
	15-Oct-24	NS		0.109	U	NS		NS		0.109	U	NS		0.109	U	0.109		0.109	U	NS		0.109	U
Trichloroethene*	10-Jan-18	0.19		NS		0.054	U	29		NS		2.1		NS		NS		0.43		NS		65	
	11-Apr-18	NS		2.1		NS		NS		41		NS		1.1	U	NS		0.13		NS		37	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		7.0		NS	
	27-Jul-18	0.27	U	NS		0.27	U	140		NS		0.68		NS		NS		0.27	U	74		NS	
	24-Oct-18	NS		1.7		NS		NS		110		NS		0.69		0.27		0.27	U	4.9		NS	
	16-Jan-19	0.29		NS		0.054	U	47		NS		1.4		NS		NS		0.054	U	42		NS	
	12-Apr-19	NS		1.8		NS		NS		45		NS		0.38		0.081		0.081	U	21		NS	
	29-Jul-19	0.4		NS		0.15		23		NS		4.7		NS		NS		0.24		21		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		22		NS	
	29-Oct-19	NS		4.8		NS		NS		33		NS		0.054	U	0.11		0.27 ^U	U	23 ^U		1.1 ^U	
	21-Jan-20	0.15		NS		0.05	U	10.00		NS		1.10		NS		NS		0.06		24		NS	
	22-Apr-20	NS		0.54		NS		NS		20		NS		0.19		0.054		0.25	U	1.4		NS	
	23-Jul-20	0.69		NS		0.12		18		NS		2.6		NS		NS		0.11	U	32		NS	
	29-Oct-20	NS		2.3		NS		NS		45		NS		0.6		0.2		0.18		1.9		NS	
	19-Jan-21	1		NS		0.054	U	5.8		NS		0.054	U	NS		NS		0.71		10 ^F		NS	
	15-Apr-21	NS		0.66		NS		NS		18		NS		0.054	U	0.054		0.11		0.22		NS	
	21-Jul-21	0.24		NS		0.054	U	3		NS		0.72		NS		NS		0.16		14		NS	
	20-Oct-21	NS		1.5		NS		NS		43		NS		0.41		0.1		0.13		1.2		NS	
	9-Feb-22	0.39		NS		0.054	U	3.9		NS		0.89		NS		NS		0.18		17		NS	
	7-Apr-22	NS		0.56		NS		NS		0.37		NS		NS		32		0.054	U	1.8		NS	
	28-Jul-22	0.99		NS		0.054	U	0.054		NS		4.1		NS		NS		0.26		24		NS	
	18-Oct-22	NS		0.054	U	NS		NS		2		NS		0.46		0.12		0.054		1.6		NS	
	24-Jan-23	0.064		NS		0.056		4.3		NS		0.19		NS		NS		0.099		18		NS	
	19-Apr-23	NS		0.83		NS		NS		11		NS		0.26		0.054		0.097		0.054		NS	
	5-Jul-23	NS		NS		NS		0.054	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.56		NS		0.054	U	5.4		NS		0.39		NS		NS		0.12		6.4		NS	
	25-Oct-23	NS		0.054	U	NS		NS		20		NS		0.2		0.081	U	0.092		1.7		NS	
	9-Jan-24	0.34		NS																			

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Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual
1,2,4-Trimethylbenzene	10-Jan-18	0.14		NS		0.098	U	0.18		NS		0.12		NS		NS		0.88		NS		0.76	
	11-Apr-18	NS		0.31 ^M		NS		NS		0.98	U	NS		0.98	U	0.98	U	0.098	U	NS		0.98	U
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.15	U	NS	
	27-Jul-18	0.49	U	NS		0.49	U	0.49	U	NS		0.49	U	NS		NS		0.49	U	0.49	U	NS	
	24-Oct-18	NS		0.49	U	NS		NS		0.49	U	NS		0.49	U	NS		0.49	U	NS		0.49	U
	16-Jan-19	0.098	U	NS		0.098	U	0.098	U	NS		0.098	U	NS		NS		0.098	U	0.098	U	NS	
	12-Apr-19	NS		0.098	U	NS		NS		0.098	U	NS		0.12	U	0.15	U	0.15	U	NS		0.15	U
	29-Jul-19	2.9		NS		3.1		4.3		NS		5.3		NS		NS		1.9		3.3		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.5		NS	
	29-Oct-19	NS		1.9		NS		NS		1.5		NS		0.3		1.7		2.2 ^U		2.7 ^U		2 ^U	
	21-Jan-20	0.17		NS		0.25		0.24		NS		0.22		NS		NS		2.10		3.10		NS	
	22-Apr-20	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098	U	0.098	U	NS		0.098	U
	23-Jul-20	0.098	U	NS		0.098	U	0.098	U	NS		0.2	U	NS		NS		3.9		4.9		NS	
	29-Oct-20	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098	U	0.098	U	NS		0.098	U
	19-Jan-21	0.098	U	NS		0.098	U	0.098	U	NS		0.098	U	NS		NS		0.098	U	0.15 ^F	U	NS	
	15-Apr-21	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098	U	0.57		NS		0.098	U
	21-Jul-21	0.74		NS		0.68		0.46		NS		1.2		NS		NS		0.82		1.1		NS	
	20-Oct-21	NS		0.17		NS		NS		0.27		NS		0.24		0.24		0.51		NS		0.68	
	9-Feb-22	0.098	U	NS		0.098	U	NS	U	0.098	U	NS		0.098	U	NS		0.098	U	0.098	U	NS	
	7-Apr-22	NS		0.89		NS		NS		1.2		NS		0.9		0.84		0.098	U	NS		1.2	
	28-Jul-22	2.9		NS		7		4.2		NS		3.2		NS		NS		1.9		2.7		NS	
	18-Oct-22	NS		0.8		NS		NS		1.2		NS		2.2		1.6		1.7		NS		2.7	
	24-Jan-23	0.098	U	NS		0.52		0.73		NS		0.22		NS		NS		0.9		1.5		NS	
	19-Apr-23	NS		2.7		NS		NS		NS		NS		4.4		2.8		4.4		NS		0.76	
	5-Jul-23	NS		NS		NS		0.13		NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	2.8		NS		1.5		1.3		NS		1.9		NS		NS		2		1.9		NS	
	25-Oct-23	NS		1.3		NS		NS		NS		1.7		NS		1.6		0.8		NS		3.5	
	9-Jan-24	0.22		NS		0.26		0.29		NS		0.5		NS		NS		0.51		0.89		NS	
	25-Apr-24	NS		0.098	U	NS		NS		0.098	U	NS		0.13		0.098		0.38		NS		0.42	
	4-Sep-24	0.5		NS		0.86		0.71		NS		0.76		NS		NS		0.39		0.66		NS	
	15-Oct-24	NS		0.113		NS		NS		0.182		NS		0.133		0.187		0.206		NS		0.526	
1,3,5-Trimethylbenzene	10-Jan-18	0.098	U	NS		0.098	U	0.098	U	NS		0.098	U	NS		NS		0.17		NS		0.12	
	11-Apr-18	NS		0.098	U	NS		NS		0.98		NS	U	0.98		0.98		0.098	U	NS		0.98	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.15	U	NS	
	27-Jul-18	0.49	U	NS		0.49	U	0.49	U	NS		0.49	U	NS		NS		0.49	U	NS		NS	
	24-Oct-18	NS		0.49	U	NS		NS		0.49		NS	U	0.49	U	0.49		0.49	U	NS		0.49	U
	16-Jan-19	0.1		NS		0.098	U	0.098	U	NS		0.098	U	NS		NS		0.098	U	0.12		NS	
	12-Apr-19	NS		0.098	U	NS		NS		0.098		NS	U	0.12	U	0.15		0.15	U	NS		0.25	
	29-Jul-19	0.68		NS		0.75		1		NS		1.2		NS		NS		0.53	U	1.8		NS	
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.15	U	NS	
	29-Oct-19	NS		0.4		NS		NS		0.47		NS		0.098	U	0.38		0.55 ^U		0.73 ^U		0.49 ^U	U
	21-Jan-20	0.10	U	NS		0.10	U	0.10	U	NS		0.10		NS		NS		0.54		0.87		NS	
	22-Apr-20	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098		0.29		NS		0.41	
	23-Jul-20	0.3		NS		0.098	U	NS		0.098	U	0.2	U	NS		NS		0.2	U	1.1		NS	
	29-Oct-20	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098		0.34	U	NS		0.37	
	19-Jan-21	0.098	U	NS		0.098	U	NS		0.098	U	NS		NS		NS		0.2	U	0.27 ^F		NS	
	15-Apr-21	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098		0.13		NS		0.098	U
	21-Jul-21	0.17		NS		0.14		0.12		NS		0.3		NS		NS		0.19		0.25		NS	
	20-Oct-21	NS		0.098	U	NS		NS		0.098	U	NS		0.098	U	0.098		0.13		NS		0.14	
	9-Feb-22	0.098	U	NS		0.098	U	0.098		NS		0.098	U	NS		NS		0.098	U	0.098	U	NS	
	7-Apr-22	NS		0.28		NS		NS		0.36		NS		0.32		0.26		0.18		NS		0.34	
	28-Jul-22	0.67		NS		1.7		1.1		NS		0.95		NS		NS		0.59		0.72		NS	
	18-Oct-22	NS		0.22 ^{MW}		NS		NS		0.29 ^{MW}		NS		0.52 ^{MW}		0.41 ^{MW}		0.39 ^{MW}		NS		0.6 ^{MW}	
	24-Jan-23	0.098	U	NS		0.18		0.24		NS		0.098	U	NS		NS		0.27		0.47		NS	
	19-Apr-23	NS		0.73		NS		NS		0.92		NS		1		0.67		1.1		NS		0.18	
	5-Jul-23	NS		NS		NS		0.098	U	NS		NS		NS		NS		NS		NS		NS	
	18-Jul-23	0.49		NS		0.23		NS		0.22		NS		1.1		NS		0.71		0.53		NS	
	25-Oct-23	NS		0.38		NS		NS		0.52		NS		0.51		0.49		0.21		NS		0.46	
	9-Jan-24	0.098	U	NS		0.098	U	0.098	U	NS		0.098											

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Volatile Organic Compounds via TO-15	Sample Date	MP-1	Qual	MP-2	Qual	MP-3	Qual	MP-4	Qual	MP-5	Qual	MP-6	Qual	MP-7	Qual	MP-8	Qual	IMP-1	Qual	IMP-2	Qual	IMP-3	Qual	
p/m-Xylene	10-Jan-18	1.4		NS		0.33		0.62		NS		0.53		NS		NS		3.4		NS		1.3		
	11-Apr-18	NS		0.35		NS		NS		1.7	U	NS		1.7	U	1.7	U	0.97		NS		1.7	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.31		NS		
	27-Jul-18	0.87	U	NS		0.87	U	0.87	U	NS		0.87	U	NS		NS		0.87	U	NS		NS		
	24-Oct-18	NS		0.87	U	NS		NS		0.87	U	NS		2		0.87	U	1.6		NS		1.3		
	16-Jan-19	1.5		NS		0.24		0.35		NS		0.42		NS		NS		0.88		1.1		NS		
	12-Apr-19	NS		0.3		NS		NS		0.36		NS		0.28		0.52		0.6		NS		1.2		
	29-Jul-19	17		NS		17		21		NS		25		NS		NS		12		13		NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		4		NS		
	29-Oct-19	NS		2.4		NS		NS		1.8		NS		0.64		2.6		4.4 ^U		6.1 ^U		4 ^U		
	21-Jan-20	0.83		NS		1.10		0.94		NS		0.69		NS		NS		3.30		3.80		NS		
	22-Apr-20	NS		0.17	U	NS		NS		0.17	U	NS		0.17	U	NS	U	1.2		NS		1.6		
	23-Jul-20	2.7		NS		0.99		0.99		NS		NS		1.2		NS		2.5		4.6		NS		
	29-Oct-20	NS		0.53		NS		NS		0.55		NS		0.45		0.71		1.5		NS		2.3		
	19-Jan-21	0.4		NS		0.22		0.19		NS		0.26		NS		NS		1.1		0.98 ^U		NS		
	15-Apr-21	NS		0.25		NS		NS		0.17	U	NS		0.17	U	0.23		0.62		NS		0.32		
	21-Jul-21	1.1		NS		1		0.75		NS		2		NS		NS		1.1		1.7		NS		
	20-Oct-21	NS		0.28		NS		NS		0.33		NS		0.43		0.37		0.8		NS		0.85		
	9-Feb-22	0.17	U	NS		0.17	U	0.24		NS		0.21		NS		NS		1.1		1.3		NS		
	7-Apr-22	NS		4.8		NS		NS		5.5		NS		5.8		4.2		1.3		NS		1.8		
	28-Jul-22	1.6		NS		1.9		2		NS		2.9		NS		NS		1.1		2.1		NS		
	18-Oct-22	NS		1		NS		NS		1.4		NS		2.2		2.2		1.4		NS		2.1		
	24-Jan-23	0.17	U	NS		1.1		1.5		NS		0.7		NS		NS		1.5		2.5		NS		
	19-Apr-23	NS		25		NS		NS		29		NS		24		20		27		NS		6.1		
	5-Jul-23	NS		NS		NS		0.029		NS		NS		NS		NS		NS		NS		NS		
	18-Jul-23	3.9		NS		0.78		0.72		NS		13		NS		NS		6		7		NS		
	25-Oct-23	NS		3.1		NS		NS		3.5		NS		3.4		3.3		2.3		NS		3.1		
	9-Jan-24	0.37		NS		0.58		0.29		NS		0.58		NS		NS		0.89		1.6		NS		
	25-Apr-24	NS		0.7		NS		NS		1.7		NS		2.9		2.4		4.2		NS		5.4		
	4-Sep-24	1.8		NS		4.6		2.1		NS		NS		2.5		NS		1.6		2.2		NS		
	15-Oct-24	NS		0.274		NS		NS		0.725		NS		0.686		0.76		0.751		NS		1.6		
o-Xylene	10-Jan-18	0.44		NS		0.12		0.2		NS		0.2		NS		NS		1.2		NS		0.53		
	11-Apr-18	NS		0.13		NS		NS		0.87	U	NS		0.87	U	0.87	U	0.35		NS		0.87	U	
	23-May-18	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.16		NS		
	27-Jul-18	0.43	U	NS		0.43	U	0.43	U	NS		0.43	U	NS		NS		0.43	U	0.43	U	NS		
	24-Oct-18	NS		0.43	U	NS		NS		0.43	U	NS		0.43	U	0.43	U	0.63		NS		0.57		
	16-Jan-19	0.44		NS		0.089		0.13		NS		0.16		NS		NS		0.31		0.38		NS		
	12-Apr-19	NS		0.11		NS		NS		0.12		NS		0.11	U	0.19		0.25		NS		0.51		
	29-Jul-19	6.7		NS		6.9		8		NS		10		NS		NS		4.6		5.3		NS		
	26-Sep-19	NS		NS		NS		NS		NS		NS		NS		NS		NS		1.7		NS		
	29-Oct-19	NS		1.2		NS		NS		0.96		NS		0.32		NS		1.8 ^U		2.8 ^U		1.7 ^U		
	21-Jan-20	0.33		NS		0.44		0.41		NS		0.32		NS		NS		1.5		1.8		NS		
	22-Apr-20	NS		0.087	U	NS		NS		0.087	U	NS		0.087	U	0.087	U	0.47		NS		0.62		
	23-Jul-20	0.8		NS		0.42		0.41		NS		0.72		NS		NS		1.2		2.1		NS		
	29-Oct-20	NS		0.24		NS		NS		0.29		NS		0.21		0.31		0.66		NS		1		
	19-Jan-21	0.13		NS		0.087	U	0.087	U	NS		0.087	U	NS		NS		0.4		0.41 ^U		NS		
	15-Apr-21	NS		0.12		NS		NS		0.087	U	NS		0.087	U	0.11		0.28		NS		0.15		
	21-Jul-21	0.57		NS		0.53		0.4		NS		NS		1.1		NS		0.55		0.9		NS		
	20-Oct-21	NS		0.12		NS		NS		0.18		NS		0.2		0.19		0.4		NS		0.39		
	9-Feb-22	0.087	U	NS		0.087	U	0.11		NS		0.096		NS		NS		0.38		0.45		NS		
	7-Apr-22	NS		1.5		NS		NS		1.6		NS		1.7		1.3		0.56		NS		0.86		
	28-Jul-22	0.75		NS		1.2		NS		NS		1.4		NS		NS		0.58		0.9		NS		
	18-Oct-22	NS		0.44		NS		NS		0.56		NS		0.88		0.85		0.6		NS		0.84		
	24-Jan-23	0.087	U	NS		0.4		0.56		NS		0.24		NS		NS		0.6		1		NS		
19-Apr-23	NS		6.2		NS		NS		7.7		NS		6.7		4.9		6.8		NS		1.5			
5-Jul-23	NS		NS		NS		0.13		NS		NS		NS		NS		NS		NS		NS			
18-Jul-23	1.2		NS		0.35		0.33		NS		5.2		NS		NS		2.6		2.8		NS			
25-Oct-23	NS		1.1		NS		NS		1.3		NS		1.2		1.2		0.89		NS		1.1			
9-Jan-24	0.14		NS		0.24		0.13		NS		0.3		NS		NS		0.35		0.57		NS			
25-Apr-24	NS		0.25		NS		NS		0.6		NS		1.1		0.82		1.6		NS		2			
4-Sep-24	0.63		NS		1.6		0.77		NS		0.86		NS		NS		0.56		0.86		NS			
15-Oct-24	NS		0.109		NS		NS		NS		0.269		NS		0.252		0.278		0.287		NS		0.643	

Summary of Subslab Air Sampling Data
Alvarez School
Volatile Organic Compounds
January 2018 - November 2024

Volatile Organic Compounds via TO-15	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8		IMP-1		IMP-2		IMP-3	
	Sample Date	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	Qual	
* Site Specific Compound of Concern per ATSDR Health Consultation, December 4, 2006. M Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side. L 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. V Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. W Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side. E Reported result is estimated due to value over calibration range J Estimated result as the result was between the MDL and the RDL. O One or more method internal standards were recovered outside of the contol limits. Sample re-analysis not possibe due to sample volume and detection limit constraints. D Elevated method reporting limits due to diluted matrices. Con-test internal standards failed and samples were re-pressurized and diluted. K Initial calibration did not meet standard and was biased on the low side. Reported result is estimated. F Elevated reporting limits due to sample miss injection. Samples were re-pressurized for analysis. Applies to IMP-2 sample. G Initial calibration verification did not meet method specifications and was biased on the high side for this compound NOTES: All data presented in micrograms per cubic meter (ug/m³). Two values displayed with a slash indicates dilutions resulting in two different concentrations. Where two reporting limits were given for mulitple dilutions, the lower RL was documented in this table. U = Designation indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column. NS = Not sampled.																						

APPENDIX D

Rooftop Emission Analytical Summary

Sample Date: 4 September 2023

*RIDEM Air Pollution Control Regulation No. 9 [August 1971, Amended April 2004].

B = Analyte found in associated blank sample but data is not affected by elevated level in blank since sample result is >10x level in the blank.

Where samples were analyzed with multiple dilution factors, the highest reported value is shown

APPENDIX E

Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number:	L2460271
Client:	EA Engineering, Science and Technology 301 Metro Center Blvd. Suite 102 Warwick, RI 02886
ATTN:	Jonathan Alvarez
Phone:	(401) 287-0371
Project Name:	ALVAREZ HS
Project Number:	15066.12
Report Date:	10/23/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



September 19, 2024

Johnathan Alvarez
EA Engineering Science & Tech. - RI
301 Metro Center Blvd, Suite 102
Warwick, RI 02886

Project Location: Rhode Island
Client Job Number:
Project Number: 15066.12
Laboratory Work Order Number: 24I0725

Enclosed are results of analyses for samples as received by the laboratory on September 5, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kaitlyn A. Feliciano
Project Manager

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EA Engineering Science & Tech. - RI
301 Metro Center Blvd, Suite 102
Warwick, RI 02886
ATTN: Johnathan Alvarez

REPORT DATE: 9/19/2024

PURCHASE ORDER NUMBER: 4615

PROJECT NUMBER: 15066.12

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24I0725

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

PROJECT LOCATION: Rhode Island

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Gym	24I0725-01	Indoor air		- EPA TO-15	
Cafeteria	24I0725-02	Indoor air		- EPA TO-15	
Kitchen Storage	24I0725-03	Indoor air		- EPA TO-15	
Elevator Hallway	24I0725-04	Indoor air		- EPA TO-15	
Rm. 145	24I0725-05	Indoor air		- EPA TO-15	
Rm. 152	24I0725-06	Indoor air		- EPA TO-15	
Rm. 118	24I0725-07	Indoor air		- EPA TO-15	
Rm. 110	24I0725-08	Indoor air		- EPA TO-15	
Rm. 116	24I0725-09	Indoor air		- EPA TO-15	
Outdoor Ambient	24I0725-10	Ambient Air		- EPA TO-15	
MP-1	24I0725-11	Sub Slab		- EPA TO-15	
MP-3	24I0725-12	Sub Slab		- EPA TO-15	
MP-4	24I0725-13	Sub Slab		- EPA TO-15	
MP-6	24I0725-14	Sub Slab		- EPA TO-15	
IMP-1	24I0725-15	Sub Slab		- EPA TO-15	
IMP-2	24I0725-16	Sub Slab		- EPA TO-15	
Rooftop Fan 1	24I0725-17	Sub Slab		- EPA TO-15	
Rooftop Fan 3	24I0725-18	Sub Slab		- EPA TO-15	
Rooftop Fan 2	24I0725-19	Sub Slab		- EPA TO-15	

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CASE NARRATIVE SUMMARY

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

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EPA TO-15**Qualifications:****E**

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

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

24I0725-06[Rm. 152]

L-01

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

Analyte & Samples(s) Qualified:**1,1,1,2-Tetrachloroethane**

B386587-BS1, B386634-BS1

Acrylonitrile

B386589-BS1

R-01

Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.

Analyte & Samples(s) Qualified:**1,1,1-Trichloroethane**

B386589-DUP1

1,2,4-Trimethylbenzene

B386589-DUP1

1,3-Dichlorobenzene

B386589-DUP1

1,4-Dichlorobenzene

B386589-DUP1

Acetone

B386589-DUP1

cis-1,2-Dichloroethylene

B386589-DUP1

m&p-Xylene

B386589-DUP1

p-Isopropyltoluene (p-Cymene)

B386589-DUP1

Styrene

B386589-DUP1

Trichloroethylene

B386589-DUP1

V-05

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

Analyte & Samples(s) Qualified:**Carbon Tetrachloride**

24I0725-18[Rooftop Fan 3], B386634-BLK1, B386634-BS1, S110784-CCV1

Dichlorodifluoromethane (Freon 12)

24I0725-13[MP-4], 24I0725-14[MP-6], 24I0725-15[IMP-1], 24I0725-16[IMP-2], 24I0725-17[Rooftop Fan 1], 24I0725-18[Rooftop Fan 3], 24I0725-19[Rooftop Fan 2], B386589-BLK1, B386589-BS1, B386589-DUP1, B386634-BLK1, B386634-BS1, S110749-CCV1, S110784-CCV1

V-07

Reported result is estimated. Internal standard area did not meet method specifications.

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

S110784-CCV1

Acrylonitrile

24I0725-18[Rooftop Fan 3]

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EPA TO-15

Initial and continuing calibrations met all required performance standards for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative.

Laboratory control sample recoveries and sample replicate RPDs were all within limits specified by the method for RCP compounds that are Title III Clean Air Act Amendment compounds listed in table 1 of the TO-15 method unless otherwise specified in this narrative. Recovery limits of 50-150% are used for propene, acetone, ethanol, isopropanol, ethyl acetate, tetrahydrofuran, cyclohexane, heptane, 2-hexanone, 4-ethyltoluene, n-butylbenzene, sec-butylbenzene, 4-isopropyltoluene, and 1,1,1,2-tetrachloroethane.

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

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

ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Gym
Sample ID: 24I0725-01
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:27

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2223
 Canister Size: 6 liter
 Flow Controller ID: 4712
 Sample Type: 30 min

Work Order: 24I0725
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): 0
 Receipt Vacuum(in Hg): -1.3
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	3.6	0.80		8.5	1.9	0.4	9/10/24	15:51	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	15:51	TPH
Benzene	0.22	0.020		0.72	0.064	0.4	9/10/24	15:51	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	15:51	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	15:51	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	15:51	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	15:51	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	15:51	TPH
Carbon Tetrachloride	0.096	0.010		0.61	0.063	0.4	9/10/24	15:51	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	15:51	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	15:51	TPH
Chloroform	0.037	0.010		0.18	0.049	0.4	9/10/24	15:51	TPH
Chloromethane	0.57	0.040		1.2	0.083	0.4	9/10/24	15:51	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	15:51	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	15:51	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	15:51	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	15:51	TPH
1,4-Dichlorobenzene	0.26	0.020		1.6	0.12	0.4	9/10/24	15:51	TPH
Dichlorodifluoromethane (Freon 12)	0.24	0.020		1.2	0.099	0.4	9/10/24	15:51	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	15:51	TPH
1,2-Dichloroethane	0.013	0.010		0.052	0.040	0.4	9/10/24	15:51	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	15:51	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	15:51	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	15:51	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	15:51	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	15:51	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	15:51	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	15:51	TPH
Ethylbenzene	0.089	0.020		0.39	0.087	0.4	9/10/24	15:51	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	15:51	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	15:51	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	15:51	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	15:51	TPH
4-Methyl-2-pentanone (MIBK)	0.042	0.020		0.17	0.082	0.4	9/10/24	15:51	TPH
Styrene	ND	0.020		ND	0.085	0.4	9/10/24	15:51	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	15:51	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	15:51	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Gym
Sample ID: 2410725-01
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 2223
Canister Size: 6 liter
Flow Controller ID: 4712
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): 0
Receipt Vacuum(in Hg): -1.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.052	0.020		0.35	0.14	0.4	9/10/24	15:51	TPH
Toluene	0.53	0.020		2.0	0.075	0.4	9/10/24	15:51	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	15:51	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	15:51	TPH
Trichloroethylene	0.030	0.010		0.16	0.054	0.4	9/10/24	15:51	TPH
Trichlorofluoromethane (Freon 11)	0.30	0.080		1.7	0.45	0.4	9/10/24	15:51	TPH
1,2,4-Trimethylbenzene	0.069	0.020		0.34	0.098	0.4	9/10/24	15:51	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/10/24	15:51	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	15:51	TPH
m&p-Xylene	0.29	0.040		1.2	0.17	0.4	9/10/24	15:51	TPH
o-Xylene	0.10	0.020		0.44	0.087	0.4	9/10/24	15:51	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	9/10/24 15:51
4-Bromofluorobenzene (2)	123	70-130	9/10/24 15:51

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Cafeteria
Sample ID: 2410725-02
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:28

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3668
 Canister Size: 6 liter
 Flow Controller ID: 4733
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -2.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	13	0.80		32	1.9	0.4	9/10/24	16:50	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	16:50	TPH
Benzene	0.23	0.020		0.73	0.064	0.4	9/10/24	16:50	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	16:50	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	16:50	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	16:50	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	16:50	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	16:50	TPH
Carbon Tetrachloride	0.097	0.010		0.61	0.063	0.4	9/10/24	16:50	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	16:50	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	16:50	TPH
Chloroform	0.083	0.010		0.41	0.049	0.4	9/10/24	16:50	TPH
Chloromethane	0.57	0.040		1.2	0.083	0.4	9/10/24	16:50	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	16:50	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	16:50	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	16:50	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	16:50	TPH
1,4-Dichlorobenzene	0.11	0.020		0.64	0.12	0.4	9/10/24	16:50	TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.1	0.099	0.4	9/10/24	16:50	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	16:50	TPH
1,2-Dichloroethane	0.014	0.010		0.057	0.040	0.4	9/10/24	16:50	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	16:50	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	16:50	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	16:50	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	16:50	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	16:50	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	16:50	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	16:50	TPH
Ethylbenzene	0.096	0.020		0.42	0.087	0.4	9/10/24	16:50	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	16:50	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	16:50	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	16:50	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	16:50	TPH
4-Methyl-2-pentanone (MIBK)	0.037	0.020		0.15	0.082	0.4	9/10/24	16:50	TPH
Styrene	0.022	0.020		0.094	0.085	0.4	9/10/24	16:50	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	16:50	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	16:50	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Cafeteria
Sample ID: 2410725-02
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:28

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P3668
 Canister Size: 6 liter
 Flow Controller ID: 4733
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -3
 Receipt Vacuum(in Hg): -2.9
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.058	0.020		0.39	0.14	0.4	9/10/24	16:50	TPH
Toluene	0.52	0.020		2.0	0.075	0.4	9/10/24	16:50	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	16:50	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	16:50	TPH
Trichloroethylene	0.023	0.010		0.12	0.054	0.4	9/10/24	16:50	TPH
Trichlorofluoromethane (Freon 11)	0.29	0.080		1.6	0.45	0.4	9/10/24	16:50	TPH
1,2,4-Trimethylbenzene	0.065	0.020		0.32	0.098	0.4	9/10/24	16:50	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/10/24	16:50	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	16:50	TPH
m&p-Xylene	0.29	0.040		1.3	0.17	0.4	9/10/24	16:50	TPH
o-Xylene	0.10	0.020		0.46	0.087	0.4	9/10/24	16:50	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	116	70-130	9/10/24 16:50
4-Bromofluorobenzene (2)	120	70-130	9/10/24 16:50

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Kitchen Storage
Sample ID: 2410725-03
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:53

Sample Description/Location:
Sub Description/Location:
Canister ID: 2201
Canister Size: 6 liter
Flow Controller ID: 4697
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): 0.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	6.2	0.80		15	1.9	0.4	9/10/24	17:45	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	17:45	TPH
Benzene	0.27	0.020		0.87	0.064	0.4	9/10/24	17:45	TPH
Bromodichloromethane	0.014	0.010		0.096	0.067	0.4	9/10/24	17:45	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	17:45	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	17:45	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	17:45	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	17:45	TPH
Carbon Tetrachloride	0.096	0.010		0.61	0.063	0.4	9/10/24	17:45	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	17:45	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	17:45	TPH
Chloroform	0.30	0.010		1.5	0.049	0.4	9/10/24	17:45	TPH
Chloromethane	0.63	0.040		1.3	0.083	0.4	9/10/24	17:45	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	17:45	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	17:45	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	17:45	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	17:45	TPH
1,4-Dichlorobenzene	0.11	0.020		0.66	0.12	0.4	9/10/24	17:45	TPH
Dichlorodifluoromethane (Freon 12)	0.22	0.020		1.1	0.099	0.4	9/10/24	17:45	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	17:45	TPH
1,2-Dichloroethane	0.017	0.010		0.070	0.040	0.4	9/10/24	17:45	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	17:45	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	17:45	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	17:45	TPH
1,2-Dichloropropane	0.010	0.010		0.048	0.046	0.4	9/10/24	17:45	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	17:45	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	17:45	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	17:45	TPH
Ethylbenzene	0.11	0.020		0.49	0.087	0.4	9/10/24	17:45	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	17:45	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	17:45	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	17:45	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	17:45	TPH
4-Methyl-2-pentanone (MIBK)	0.14	0.020		0.58	0.082	0.4	9/10/24	17:45	TPH
Styrene	0.060	0.020		0.26	0.085	0.4	9/10/24	17:45	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	17:45	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	17:45	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island

Date Received: 9/5/2024

Field Sample #: Kitchen Storage
Sample ID: 2410725-03

Sample Matrix: Indoor air

Sampled: 9/4/2024 10:53

Sample Description/Location:

Sub Description/Location:

Canister ID: 2201

Canister Size: 6 liter

Flow Controller ID: 4697

Sample Type: 30 min

Work Order: 2410725

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -5

Receipt Vacuum(in Hg): 0.0

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.074	0.020		0.50	0.14	0.4	9/10/24	17:45	TPH
Toluene	1.2	0.020		4.5	0.075	0.4	9/10/24	17:45	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	17:45	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	17:45	TPH
Trichloroethylene	0.033	0.010		0.18	0.054	0.4	9/10/24	17:45	TPH
Trichlorofluoromethane (Freon 11)	0.31	0.080		1.7	0.45	0.4	9/10/24	17:45	TPH
1,2,4-Trimethylbenzene	0.088	0.020		0.43	0.098	0.4	9/10/24	17:45	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/10/24	17:45	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	17:45	TPH
m&p-Xylene	0.34	0.040		1.5	0.17	0.4	9/10/24	17:45	TPH
o-Xylene	0.12	0.020		0.53	0.087	0.4	9/10/24	17:45	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	115	70-130	9/10/24 17:45
4-Bromofluorobenzene (2)	120	70-130	9/10/24 17:45

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Elevator Hallway
Sample ID: 2410725-04
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 2013
Canister Size: 6 liter
Flow Controller ID: 4713
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -3.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	4.5	0.80		11	1.9	0.4	9/10/24 18:44		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24 18:44		TPH
Benzene	0.29	0.020		0.92	0.064	0.4	9/10/24 18:44		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24 18:44		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24 18:44		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24 18:44		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24 18:44		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24 18:44		TPH
Carbon Tetrachloride	0.098	0.010		0.61	0.063	0.4	9/10/24 18:44		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24 18:44		TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24 18:44		TPH
Chloroform	0.046	0.010		0.22	0.049	0.4	9/10/24 18:44		TPH
Chloromethane	0.56	0.040		1.2	0.083	0.4	9/10/24 18:44		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24 18:44		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24 18:44		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24 18:44		TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24 18:44		TPH
1,4-Dichlorobenzene	0.40	0.020		2.4	0.12	0.4	9/10/24 18:44		TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.1	0.099	0.4	9/10/24 18:44		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24 18:44		TPH
1,2-Dichloroethane	0.013	0.010		0.053	0.040	0.4	9/10/24 18:44		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 18:44		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 18:44		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 18:44		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24 18:44		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24 18:44		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24 18:44		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24 18:44		TPH
Ethylbenzene	0.11	0.020		0.47	0.087	0.4	9/10/24 18:44		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24 18:44		TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24 18:44		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24 18:44		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24 18:44		TPH
4-Methyl-2-pentanone (MIBK)	ND	0.020		ND	0.082	0.4	9/10/24 18:44		TPH
Styrene	0.026	0.020		0.11	0.085	0.4	9/10/24 18:44		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24 18:44		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24 18:44		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Elevator Hallway
Sample ID: 2410725-04
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 2013
Canister Size: 6 liter
Flow Controller ID: 4713
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -3.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.054	0.020		0.36	0.14	0.4	9/10/24 18:44		TPH
Toluene	0.67	0.020		2.5	0.075	0.4	9/10/24 18:44		TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24 18:44		TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24 18:44		TPH
Trichloroethylene	0.041	0.010		0.22	0.054	0.4	9/10/24 18:44		TPH
Trichlorofluoromethane (Freon 11)	0.29	0.080		1.6	0.45	0.4	9/10/24 18:44		TPH
1,2,4-Trimethylbenzene	0.086	0.020		0.42	0.098	0.4	9/10/24 18:44		TPH
1,3,5-Trimethylbenzene	0.020	0.020		0.098	0.098	0.4	9/10/24 18:44		TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24 18:44		TPH
m&p-Xylene	0.36	0.040		1.6	0.17	0.4	9/10/24 18:44		TPH
o-Xylene	0.13	0.020		0.58	0.087	0.4	9/10/24 18:44		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	114	70-130	9/10/24 18:44
4-Bromofluorobenzene (2)	117	70-130	9/10/24 18:44

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rm. 145
Sample ID: 2410725-05
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 2034
Canister Size: 6 liter
Flow Controller ID: 4732
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -3.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.2	0.80		22	1.9	0.4	9/10/24	19:43	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	19:43	TPH
Benzene	0.22	0.020		0.69	0.064	0.4	9/10/24	19:43	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	19:43	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	19:43	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	19:43	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	19:43	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	19:43	TPH
Carbon Tetrachloride	0.092	0.010		0.58	0.063	0.4	9/10/24	19:43	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	19:43	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	19:43	TPH
Chloroform	0.030	0.010		0.15	0.049	0.4	9/10/24	19:43	TPH
Chloromethane	0.60	0.040		1.2	0.083	0.4	9/10/24	19:43	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	19:43	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	19:43	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	19:43	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	19:43	TPH
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	19:43	TPH
Dichlorodifluoromethane (Freon 12)	0.24	0.020		1.2	0.099	0.4	9/10/24	19:43	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	19:43	TPH
1,2-Dichloroethane	0.013	0.010		0.053	0.040	0.4	9/10/24	19:43	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	19:43	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	19:43	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	19:43	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	19:43	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	19:43	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	19:43	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	19:43	TPH
Ethylbenzene	0.098	0.020		0.43	0.087	0.4	9/10/24	19:43	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	19:43	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	19:43	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	19:43	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	19:43	TPH
4-Methyl-2-pentanone (MIBK)	0.047	0.020		0.19	0.082	0.4	9/10/24	19:43	TPH
Styrene	0.030	0.020		0.13	0.085	0.4	9/10/24	19:43	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	19:43	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	19:43	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rm. 145
Sample ID: 2410725-05
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 2034
Canister Size: 6 liter
Flow Controller ID: 4732
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.5
Receipt Vacuum(in Hg): -3.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.058	0.020		0.39	0.14	0.4	9/10/24	19:43	TPH
Toluene	0.46	0.020		1.7	0.075	0.4	9/10/24	19:43	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	19:43	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	19:43	TPH
Trichloroethylene	0.018	0.010		0.097	0.054	0.4	9/10/24	19:43	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.080		1.6	0.45	0.4	9/10/24	19:43	TPH
1,2,4-Trimethylbenzene	0.059	0.020		0.29	0.098	0.4	9/10/24	19:43	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/10/24	19:43	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	19:43	TPH
m&p-Xylene	0.28	0.040		1.2	0.17	0.4	9/10/24	19:43	TPH
o-Xylene	0.10	0.020		0.43	0.087	0.4	9/10/24	19:43	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	112	70-130	9/10/24 19:43
4-Bromofluorobenzene (2)	118	70-130	9/10/24 19:43

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 152
Sample ID: 2410725-06
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:21

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1618
 Canister Size: 6 liter
 Flow Controller ID: 4696
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -1.0
 Receipt Vacuum(in Hg): -1.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	45	0.80	E	110	1.9	0.4	9/10/24 20:40		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24 20:40		TPH
Benzene	0.31	0.020		1.0	0.064	0.4	9/10/24 20:40		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24 20:40		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24 20:40		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24 20:40		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24 20:40		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24 20:40		TPH
Carbon Tetrachloride	0.099	0.010		0.62	0.063	0.4	9/10/24 20:40		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24 20:40		TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24 20:40		TPH
Chloroform	0.050	0.010		0.24	0.049	0.4	9/10/24 20:40		TPH
Chloromethane	0.78	0.040		1.6	0.083	0.4	9/10/24 20:40		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24 20:40		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24 20:40		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24 20:40		TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24 20:40		TPH
1,4-Dichlorobenzene	0.060	0.020		0.36	0.12	0.4	9/10/24 20:40		TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.1	0.099	0.4	9/10/24 20:40		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24 20:40		TPH
1,2-Dichloroethane	0.019	0.010		0.078	0.040	0.4	9/10/24 20:40		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 20:40		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 20:40		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24 20:40		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24 20:40		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24 20:40		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24 20:40		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24 20:40		TPH
Ethylbenzene	0.13	0.020		0.56	0.087	0.4	9/10/24 20:40		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24 20:40		TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24 20:40		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24 20:40		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24 20:40		TPH
4-Methyl-2-pentanone (MIBK)	0.066	0.020		0.27	0.082	0.4	9/10/24 20:40		TPH
Styrene	0.069	0.020		0.29	0.085	0.4	9/10/24 20:40		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24 20:40		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24 20:40		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rm. 152
Sample ID: 2410725-06
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:21

Sample Description/Location:
Sub Description/Location:
Canister ID: 1618
Canister Size: 6 liter
Flow Controller ID: 4696
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -1.0
Receipt Vacuum(in Hg): -1.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.042	0.020		0.29	0.14	0.4	9/10/24 20:40	TPH	
Toluene	0.80	0.020		3.0	0.075	0.4	9/10/24 20:40	TPH	
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24 20:40	TPH	
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24 20:40	TPH	
Trichloroethylene	0.037	0.010		0.20	0.054	0.4	9/10/24 20:40	TPH	
Trichlorofluoromethane (Freon 11)	0.28	0.080		1.6	0.45	0.4	9/10/24 20:40	TPH	
1,2,4-Trimethylbenzene	0.12	0.020		0.60	0.098	0.4	9/10/24 20:40	TPH	
1,3,5-Trimethylbenzene	0.027	0.020		0.13	0.098	0.4	9/10/24 20:40	TPH	
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24 20:40	TPH	
m&p-Xylene	0.41	0.040		1.8	0.17	0.4	9/10/24 20:40	TPH	
o-Xylene	0.22	0.020		0.97	0.087	0.4	9/10/24 20:40	TPH	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	114	70-130	9/10/24 20:40
4-Bromofluorobenzene (2)	116	70-130	9/10/24 20:40

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 118
Sample ID: 2410725-07
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:15

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1334
 Canister Size: 6 liter
 Flow Controller ID: 4714
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -1.5
 Receipt Vacuum(in Hg): -1.2
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	10	0.80		24	1.9	0.4	9/10/24	21:38	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	21:38	TPH
Benzene	0.32	0.020		1.0	0.064	0.4	9/10/24	21:38	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	21:38	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	21:38	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	21:38	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	21:38	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	21:38	TPH
Carbon Tetrachloride	0.098	0.010		0.62	0.063	0.4	9/10/24	21:38	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	21:38	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	21:38	TPH
Chloroform	0.053	0.010		0.26	0.049	0.4	9/10/24	21:38	TPH
Chloromethane	0.67	0.040		1.4	0.083	0.4	9/10/24	21:38	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	21:38	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	21:38	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	21:38	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	21:38	TPH
1,4-Dichlorobenzene	0.36	0.020		2.2	0.12	0.4	9/10/24	21:38	TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.2	0.099	0.4	9/10/24	21:38	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	21:38	TPH
1,2-Dichloroethane	0.017	0.010		0.070	0.040	0.4	9/10/24	21:38	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	21:38	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	21:38	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	21:38	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	21:38	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	21:38	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	21:38	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	21:38	TPH
Ethylbenzene	0.13	0.020		0.54	0.087	0.4	9/10/24	21:38	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	21:38	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	21:38	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	21:38	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	21:38	TPH
4-Methyl-2-pentanone (MIBK)	0.040	0.020		0.16	0.082	0.4	9/10/24	21:38	TPH
Styrene	0.038	0.020		0.16	0.085	0.4	9/10/24	21:38	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	21:38	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	21:38	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rm. 118
Sample ID: 2410725-07
Sample Matrix: Indoor air
Sampled: 9/4/2024 10:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1334
Canister Size: 6 liter
Flow Controller ID: 4714
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -1.5
Receipt Vacuum(in Hg): -1.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.045	0.020		0.31	0.14	0.4	9/10/24	21:38	TPH
Toluene	0.82	0.020		3.1	0.075	0.4	9/10/24	21:38	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	21:38	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	21:38	TPH
Trichloroethylene	0.042	0.010		0.23	0.054	0.4	9/10/24	21:38	TPH
Trichlorofluoromethane (Freon 11)	0.30	0.080		1.7	0.45	0.4	9/10/24	21:38	TPH
1,2,4-Trimethylbenzene	0.10	0.020		0.49	0.098	0.4	9/10/24	21:38	TPH
1,3,5-Trimethylbenzene	0.024	0.020		0.12	0.098	0.4	9/10/24	21:38	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	21:38	TPH
m&p-Xylene	0.40	0.040		1.7	0.17	0.4	9/10/24	21:38	TPH
o-Xylene	0.14	0.020		0.62	0.087	0.4	9/10/24	21:38	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	113	70-130	9/10/24 21:38
4-Bromofluorobenzene (2)	118	70-130	9/10/24 21:38

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 110
Sample ID: 2410725-08
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2463
 Canister Size: 6 liter
 Flow Controller ID: 4711
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): 0.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	20	0.80		47	1.9	0.4	9/10/24	22:33	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	22:33	TPH
Benzene	0.29	0.020		0.94	0.064	0.4	9/10/24	22:33	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	22:33	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	22:33	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	22:33	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	22:33	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	22:33	TPH
Carbon Tetrachloride	0.091	0.010		0.57	0.063	0.4	9/10/24	22:33	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	22:33	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	22:33	TPH
Chloroform	0.056	0.010		0.27	0.049	0.4	9/10/24	22:33	TPH
Chloromethane	0.75	0.040		1.6	0.083	0.4	9/10/24	22:33	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	22:33	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	22:33	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	22:33	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	22:33	TPH
1,4-Dichlorobenzene	0.52	0.020		3.1	0.12	0.4	9/10/24	22:33	TPH
Dichlorodifluoromethane (Freon 12)	0.24	0.020		1.2	0.099	0.4	9/10/24	22:33	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	22:33	TPH
1,2-Dichloroethane	0.016	0.010		0.065	0.040	0.4	9/10/24	22:33	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	22:33	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	22:33	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	22:33	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	22:33	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	22:33	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	22:33	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	22:33	TPH
Ethylbenzene	0.11	0.020		0.50	0.087	0.4	9/10/24	22:33	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	22:33	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	22:33	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	22:33	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	22:33	TPH
4-Methyl-2-pentanone (MIBK)	0.032	0.020		0.13	0.082	0.4	9/10/24	22:33	TPH
Styrene	0.032	0.020		0.14	0.085	0.4	9/10/24	22:33	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	22:33	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	22:33	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 110
Sample ID: 2410725-08
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:51

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 2463
 Canister Size: 6 liter
 Flow Controller ID: 4711
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -7
 Receipt Vacuum(in Hg): 0.0
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.060	0.020		0.41	0.14	0.4	9/10/24	22:33	TPH
Toluene	0.72	0.020		2.7	0.075	0.4	9/10/24	22:33	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	22:33	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	22:33	TPH
Trichloroethylene	0.041	0.010		0.22	0.054	0.4	9/10/24	22:33	TPH
Trichlorofluoromethane (Freon 11)	0.28	0.080		1.6	0.45	0.4	9/10/24	22:33	TPH
1,2,4-Trimethylbenzene	0.094	0.020		0.46	0.098	0.4	9/10/24	22:33	TPH
1,3,5-Trimethylbenzene	0.024	0.020		0.12	0.098	0.4	9/10/24	22:33	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	22:33	TPH
m&p-Xylene	0.38	0.040		1.6	0.17	0.4	9/10/24	22:33	TPH
o-Xylene	0.14	0.020		0.59	0.087	0.4	9/10/24	22:33	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	115	70-130	9/10/24 22:33
4-Bromofluorobenzene (2)	122	70-130	9/10/24 22:33

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 116
Sample ID: 2410725-09
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:16

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1245
 Canister Size: 6 liter
 Flow Controller ID: 4583
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3.0
 Receipt Vacuum(in Hg): -0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	10	0.80		24	1.9	0.4	9/10/24	23:29	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/10/24	23:29	TPH
Benzene	0.33	0.020		1.0	0.064	0.4	9/10/24	23:29	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/10/24	23:29	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/10/24	23:29	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/10/24	23:29	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/10/24	23:29	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/10/24	23:29	TPH
Carbon Tetrachloride	0.097	0.010		0.61	0.063	0.4	9/10/24	23:29	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/10/24	23:29	TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/10/24	23:29	TPH
Chloroform	0.049	0.010		0.24	0.049	0.4	9/10/24	23:29	TPH
Chloromethane	0.65	0.040		1.3	0.083	0.4	9/10/24	23:29	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/10/24	23:29	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/10/24	23:29	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	23:29	TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/10/24	23:29	TPH
1,4-Dichlorobenzene	0.29	0.020		1.8	0.12	0.4	9/10/24	23:29	TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.1	0.099	0.4	9/10/24	23:29	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/10/24	23:29	TPH
1,2-Dichloroethane	0.017	0.010		0.070	0.040	0.4	9/10/24	23:29	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	23:29	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	23:29	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/10/24	23:29	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/10/24	23:29	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/10/24	23:29	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	23:29	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/10/24	23:29	TPH
Ethylbenzene	0.13	0.020		0.56	0.087	0.4	9/10/24	23:29	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/10/24	23:29	TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/10/24	23:29	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/10/24	23:29	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/10/24	23:29	TPH
4-Methyl-2-pentanone (MIBK)	0.027	0.020		0.11	0.082	0.4	9/10/24	23:29	TPH
Styrene	0.030	0.020		0.13	0.085	0.4	9/10/24	23:29	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/10/24	23:29	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/10/24	23:29	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rm. 116
Sample ID: 2410725-09
 Sample Matrix: Indoor air
 Sampled: 9/4/2024 10:16

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1245
 Canister Size: 6 liter
 Flow Controller ID: 4583
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3.0
 Receipt Vacuum(in Hg): -0.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.054	0.020		0.37	0.14	0.4	9/10/24	23:29	TPH
Toluene	0.77	0.020		2.9	0.075	0.4	9/10/24	23:29	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	23:29	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/10/24	23:29	TPH
Trichloroethylene	0.061	0.010		0.33	0.054	0.4	9/10/24	23:29	TPH
Trichlorofluoromethane (Freon 11)	0.29	0.080		1.6	0.45	0.4	9/10/24	23:29	TPH
1,2,4-Trimethylbenzene	0.10	0.020		0.50	0.098	0.4	9/10/24	23:29	TPH
1,3,5-Trimethylbenzene	0.026	0.020		0.13	0.098	0.4	9/10/24	23:29	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/10/24	23:29	TPH
m&p-Xylene	0.42	0.040		1.8	0.17	0.4	9/10/24	23:29	TPH
o-Xylene	0.15	0.020		0.63	0.087	0.4	9/10/24	23:29	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	115	70-130	9/10/24 23:29
4-Bromofluorobenzene (2)	122	70-130	9/10/24 23:29

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Outdoor Ambient
Sample ID: 2410725-10
 Sample Matrix: Ambient Air
 Sampled: 9/4/2024 13:07

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1943
 Canister Size: 6 liter
 Flow Controller ID: 4725
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5.0
 Receipt Vacuum(in Hg): -2.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	4.0	0.80		9.5	1.9	0.4	9/11/24 1:08		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/11/24 1:08		TPH
Benzene	0.099	0.020		0.32	0.064	0.4	9/11/24 1:08		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/11/24 1:08		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/11/24 1:08		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/11/24 1:08		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/11/24 1:08		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/11/24 1:08		TPH
Carbon Tetrachloride	0.090	0.010		0.56	0.063	0.4	9/11/24 1:08		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/11/24 1:08		TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/11/24 1:08		TPH
Chloroform	0.020	0.010		0.100	0.049	0.4	9/11/24 1:08		TPH
Chloromethane	0.51	0.040		1.0	0.083	0.4	9/11/24 1:08		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/11/24 1:08		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/11/24 1:08		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/11/24 1:08		TPH
1,3-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/11/24 1:08		TPH
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/11/24 1:08		TPH
Dichlorodifluoromethane (Freon 12)	0.21	0.020		1.0	0.099	0.4	9/11/24 1:08		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/11/24 1:08		TPH
1,2-Dichloroethane	0.011	0.010		0.045	0.040	0.4	9/11/24 1:08		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 1:08		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 1:08		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 1:08		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/11/24 1:08		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/11/24 1:08		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 1:08		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 1:08		TPH
Ethylbenzene	0.021	0.020		0.090	0.087	0.4	9/11/24 1:08		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/11/24 1:08		TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/11/24 1:08		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/11/24 1:08		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/11/24 1:08		TPH
4-Methyl-2-pentanone (MIBK)	0.023	0.020		0.095	0.082	0.4	9/11/24 1:08		TPH
Styrene	ND	0.020		ND	0.085	0.4	9/11/24 1:08		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/11/24 1:08		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/11/24 1:08		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island

Date Received: 9/5/2024

Field Sample #: Outdoor Ambient
Sample ID: 2410725-10

Sample Matrix: Ambient Air

Sampled: 9/4/2024 13:07

Sample Description/Location:

Sub Description/Location:

Canister ID: 1943

Canister Size: 6 liter

Flow Controller ID: 4725

Sample Type: 30 min

Work Order: 2410725

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -5.0

Receipt Vacuum(in Hg): -2.8

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.033	0.020		0.23	0.14	0.4	9/11/24	1:08	TPH
Toluene	0.12	0.020		0.46	0.075	0.4	9/11/24	1:08	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24	1:08	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24	1:08	TPH
Trichloroethylene	ND	0.010		ND	0.054	0.4	9/11/24	1:08	TPH
Trichlorofluoromethane (Freon 11)	0.27	0.080		1.5	0.45	0.4	9/11/24	1:08	TPH
1,2,4-Trimethylbenzene	0.022	0.020		0.11	0.098	0.4	9/11/24	1:08	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/11/24	1:08	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/11/24	1:08	TPH
m&p-Xylene	0.049	0.040		0.21	0.17	0.4	9/11/24	1:08	TPH
o-Xylene	0.022	0.020		0.094	0.087	0.4	9/11/24	1:08	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	114	70-130	9/11/24 1:08	
4-Bromofluorobenzene (2)	118	70-130	9/11/24 1:08	

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: MP-1
Sample ID: 2410725-11
Sample Matrix: Sub Slab
Sampled: 9/4/2024 13:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 1027
Canister Size: 6 liter
Flow Controller ID: 4657
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -2.5
Receipt Vacuum(in Hg): -2.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	9.9	0.80		24	1.9	0.4	9/11/24 2:07		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/11/24 2:07		TPH
Benzene	0.24	0.020		0.76	0.064	0.4	9/11/24 2:07		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/11/24 2:07		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/11/24 2:07		TPH
2-Butanone (MEK)	4.1	0.80		12	2.4	0.4	9/11/24 2:07		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/11/24 2:07		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/11/24 2:07		TPH
Carbon Tetrachloride	0.10	0.010		0.65	0.063	0.4	9/11/24 2:07		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/11/24 2:07		TPH
Chloroethane	0.061	0.020		0.16	0.053	0.4	9/11/24 2:07		TPH
Chloroform	0.043	0.010		0.21	0.049	0.4	9/11/24 2:07		TPH
Chloromethane	2.2	0.040		4.5	0.083	0.4	9/11/24 2:07		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/11/24 2:07		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/11/24 2:07		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/11/24 2:07		TPH
1,3-Dichlorobenzene	0.21	0.020		1.3	0.12	0.4	9/11/24 2:07		TPH
1,4-Dichlorobenzene	0.024	0.020		0.14	0.12	0.4	9/11/24 2:07		TPH
Dichlorodifluoromethane (Freon 12)	0.23	0.020		1.1	0.099	0.4	9/11/24 2:07		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/11/24 2:07		TPH
1,2-Dichloroethane	ND	0.010		ND	0.040	0.4	9/11/24 2:07		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 2:07		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 2:07		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 2:07		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/11/24 2:07		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/11/24 2:07		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 2:07		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 2:07		TPH
Ethylbenzene	0.27	0.020		1.2	0.087	0.4	9/11/24 2:07		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/11/24 2:07		TPH
p-Isopropyltoluene (p-Cymene)	0.12	0.046		0.63	0.25	0.4	9/11/24 2:07		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/11/24 2:07		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/11/24 2:07		TPH
4-Methyl-2-pentanone (MIBK)	0.20	0.020		0.81	0.082	0.4	9/11/24 2:07		TPH
Styrene	0.10	0.020		0.43	0.085	0.4	9/11/24 2:07		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/11/24 2:07		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/11/24 2:07		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: MP-1
Sample ID: 2410725-11
Sample Matrix: Sub Slab
Sampled: 9/4/2024 13:23

Sample Description/Location:
Sub Description/Location:
Canister ID: 1027
Canister Size: 6 liter
Flow Controller ID: 4657
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -2.5
Receipt Vacuum(in Hg): -2.0
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.72	0.020		4.9	0.14	0.4	9/11/24 2:07		TPH
Toluene	0.90	0.020		3.4	0.075	0.4	9/11/24 2:07		TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24 2:07		TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24 2:07		TPH
Trichloroethylene	0.77	0.010		4.1	0.054	0.4	9/11/24 2:07		TPH
Trichlorofluoromethane (Freon 11)	0.34	0.080		1.9	0.45	0.4	9/11/24 2:07		TPH
1,2,4-Trimethylbenzene	0.17	0.020		0.86	0.098	0.4	9/11/24 2:07		TPH
1,3,5-Trimethylbenzene	0.023	0.020		0.11	0.098	0.4	9/11/24 2:07		TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/11/24 2:07		TPH
m&p-Xylene	1.1	0.040		4.6	0.17	0.4	9/11/24 2:07		TPH
o-Xylene	0.38	0.020		1.6	0.087	0.4	9/11/24 2:07		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	116	70-130	9/11/24 2:07
4-Bromofluorobenzene (2)	119	70-130	9/11/24 2:07

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: MP-3
Sample ID: 2410725-12
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 13:21

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1621
 Canister Size: 6 liter
 Flow Controller ID: 4626
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -1.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	13	0.80		31	1.9	0.4	9/11/24 3:07		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/11/24 3:07		TPH
Benzene	0.22	0.020		0.69	0.064	0.4	9/11/24 3:07		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/11/24 3:07		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/11/24 3:07		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/11/24 3:07		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/11/24 3:07		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/11/24 3:07		TPH
Carbon Tetrachloride	0.11	0.010		0.70	0.063	0.4	9/11/24 3:07		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/11/24 3:07		TPH
Chloroethane	0.037	0.020		0.097	0.053	0.4	9/11/24 3:07		TPH
Chloroform	0.050	0.010		0.24	0.049	0.4	9/11/24 3:07		TPH
Chloromethane	0.79	0.040		1.6	0.083	0.4	9/11/24 3:07		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/11/24 3:07		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/11/24 3:07		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/11/24 3:07		TPH
1,3-Dichlorobenzene	0.92	0.020		5.5	0.12	0.4	9/11/24 3:07		TPH
1,4-Dichlorobenzene	0.032	0.020		0.19	0.12	0.4	9/11/24 3:07		TPH
Dichlorodifluoromethane (Freon 12)	0.26	0.020		1.3	0.099	0.4	9/11/24 3:07		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/11/24 3:07		TPH
1,2-Dichloroethane	0.014	0.010		0.057	0.040	0.4	9/11/24 3:07		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 3:07		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 3:07		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/11/24 3:07		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/11/24 3:07		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/11/24 3:07		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 3:07		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/11/24 3:07		TPH
Ethylbenzene	0.13	0.020		0.56	0.087	0.4	9/11/24 3:07		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/11/24 3:07		TPH
p-Isopropyltoluene (p-Cymene)	0.085	0.046		0.47	0.25	0.4	9/11/24 3:07		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/11/24 3:07		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/11/24 3:07		TPH
4-Methyl-2-pentanone (MIBK)	0.12	0.020		0.49	0.082	0.4	9/11/24 3:07		TPH
Styrene	0.087	0.020		0.37	0.085	0.4	9/11/24 3:07		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/11/24 3:07		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/11/24 3:07		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: MP-3
Sample ID: 2410725-12
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 13:21

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1621
 Canister Size: 6 liter
 Flow Controller ID: 4626
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -1.8
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.19	0.020		1.3	0.14	0.4	9/11/24 3:07		TPH
Toluene	0.69	0.020		2.6	0.075	0.4	9/11/24 3:07		TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24 3:07		TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/11/24 3:07		TPH
Trichloroethylene	0.011	0.010		0.058	0.054	0.4	9/11/24 3:07		TPH
Trichlorofluoromethane (Freon 11)	0.32	0.080		1.8	0.45	0.4	9/11/24 3:07		TPH
1,2,4-Trimethylbenzene	0.15	0.020		0.71	0.098	0.4	9/11/24 3:07		TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/11/24 3:07		TPH
Vinyl Chloride	0.096	0.020		0.25	0.051	0.4	9/11/24 3:07		TPH
m&p-Xylene	0.49	0.040		2.1	0.17	0.4	9/11/24 3:07		TPH
o-Xylene	0.18	0.020		0.77	0.087	0.4	9/11/24 3:07		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	114	70-130	9/11/24 3:07
4-Bromofluorobenzene (2)	122	70-130	9/11/24 3:07

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: MP-4
Sample ID: 2410725-13
Sample Matrix: Sub Slab
Sampled: 9/4/2024 13:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1878
Canister Size: 6 liter
Flow Controller ID: 4600
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -2.5
Receipt Vacuum(in Hg): -4.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	16	0.80		38	1.9	0.4	9/12/24 1:58		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24 1:58		TPH
Benzene	0.17	0.020		0.54	0.064	0.4	9/12/24 1:58		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24 1:58		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24 1:58		TPH
2-Butanone (MEK)	2.3	0.80		6.9	2.4	0.4	9/12/24 1:58		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24 1:58		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24 1:58		TPH
Carbon Tetrachloride	0.050	0.010		0.31	0.063	0.4	9/12/24 1:58		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24 1:58		TPH
Chloroethane	0.039	0.020		0.10	0.053	0.4	9/12/24 1:58		TPH
Chloroform	0.024	0.010		0.12	0.049	0.4	9/12/24 1:58		TPH
Chloromethane	1.5	0.040		3.0	0.083	0.4	9/12/24 1:58		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24 1:58		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24 1:58		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 1:58		TPH
1,3-Dichlorobenzene	0.98	0.020		5.9	0.12	0.4	9/12/24 1:58		TPH
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 1:58		TPH
Dichlorodifluoromethane (Freon 12)	0.11	0.020	V-05	0.54	0.099	0.4	9/12/24 1:58		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24 1:58		TPH
1,2-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24 1:58		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 1:58		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 1:58		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 1:58		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24 1:58		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24 1:58		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 1:58		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 1:58		TPH
Ethylbenzene	0.14	0.020		0.60	0.087	0.4	9/12/24 1:58		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/12/24 1:58		TPH
p-Isopropyltoluene (p-Cymene)	0.060	0.046		0.33	0.25	0.4	9/12/24 1:58		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/12/24 1:58		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/12/24 1:58		TPH
4-Methyl-2-pentanone (MIBK)	0.089	0.020		0.37	0.082	0.4	9/12/24 1:58		TPH
Styrene	0.069	0.020		0.29	0.085	0.4	9/12/24 1:58		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/12/24 1:58		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/12/24 1:58		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: MP-4
Sample ID: 2410725-13
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 13:25

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1878
 Canister Size: 6 liter
 Flow Controller ID: 4600
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -2.5
 Receipt Vacuum(in Hg): -4.4
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Tetrachloroethylene	0.082	0.020		0.55	0.14	0.4	9/12/24	1:58	TPH
Toluene	0.45	0.020		1.7	0.075	0.4	9/12/24	1:58	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	1:58	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	1:58	TPH
Trichloroethylene	0.86	0.010		4.6	0.054	0.4	9/12/24	1:58	TPH
Trichlorofluoromethane (Freon 11)	0.89	0.080		5.0	0.45	0.4	9/12/24	1:58	TPH
1,2,4-Trimethylbenzene	0.15	0.020		0.76	0.098	0.4	9/12/24	1:58	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/12/24	1:58	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/12/24	1:58	TPH
m&p-Xylene	0.57	0.040		2.5	0.17	0.4	9/12/24	1:58	TPH
o-Xylene	0.20	0.020		0.86	0.087	0.4	9/12/24	1:58	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	110	70-130	9/12/24 1:58	
4-Bromofluorobenzene (2)	99.3	70-130	9/12/24 1:58	

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: MP-6
Sample ID: 2410725-14
Sample Matrix: Sub Slab
Sampled: 9/4/2024 13:10

Sample Description/Location:
Sub Description/Location:
Canister ID: 2443
Canister Size: 6 liter
Flow Controller ID: 4599
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -4.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	2.8	0.80		6.7	1.9	0.4	9/12/24 2:58		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24 2:58		TPH
Benzene	0.10	0.020		0.33	0.064	0.4	9/12/24 2:58		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24 2:58		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24 2:58		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/12/24 2:58		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24 2:58		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24 2:58		TPH
Carbon Tetrachloride	0.049	0.010		0.31	0.063	0.4	9/12/24 2:58		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24 2:58		TPH
Chloroethane	0.12	0.020		0.32	0.053	0.4	9/12/24 2:58		TPH
Chloroform	0.031	0.010		0.15	0.049	0.4	9/12/24 2:58		TPH
Chloromethane	1.6	0.040		3.2	0.083	0.4	9/12/24 2:58		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24 2:58		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24 2:58		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 2:58		TPH
1,3-Dichlorobenzene	0.38	0.020		2.3	0.12	0.4	9/12/24 2:58		TPH
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 2:58		TPH
Dichlorodifluoromethane (Freon 12)	0.13	0.020	V-05	0.64	0.099	0.4	9/12/24 2:58		TPH
1,1-Dichloroethane	0.033	0.010		0.13	0.040	0.4	9/12/24 2:58		TPH
1,2-Dichloroethane	0.015	0.010		0.062	0.040	0.4	9/12/24 2:58		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 2:58		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 2:58		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 2:58		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24 2:58		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24 2:58		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 2:58		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 2:58		TPH
Ethylbenzene	0.083	0.020		0.36	0.087	0.4	9/12/24 2:58		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/12/24 2:58		TPH
p-Isopropyltoluene (p-Cymene)	0.068	0.046		0.38	0.25	0.4	9/12/24 2:58		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/12/24 2:58		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/12/24 2:58		TPH
4-Methyl-2-pentanone (MIBK)	0.057	0.020		0.23	0.082	0.4	9/12/24 2:58		TPH
Styrene	0.028	0.020		0.12	0.085	0.4	9/12/24 2:58		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/12/24 2:58		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/12/24 2:58		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: MP-6
Sample ID: 2410725-14
Sample Matrix: Sub Slab
Sampled: 9/4/2024 13:10

Sample Description/Location:
Sub Description/Location:
Canister ID: 2443
Canister Size: 6 liter
Flow Controller ID: 4599
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -4.5
Receipt Vacuum(in Hg): -4.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.19	0.020		1.3	0.14	0.4	9/12/24	2:58	TPH
Toluene	0.33	0.020		1.3	0.075	0.4	9/12/24	2:58	TPH
1,1,1-Trichloroethane	0.021	0.010		0.12	0.055	0.4	9/12/24	2:58	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	2:58	TPH
Trichloroethylene	0.23	0.010		1.3	0.054	0.4	9/12/24	2:58	TPH
Trichlorofluoromethane (Freon 11)	0.33	0.080		1.8	0.45	0.4	9/12/24	2:58	TPH
1,2,4-Trimethylbenzene	0.080	0.020		0.39	0.098	0.4	9/12/24	2:58	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/12/24	2:58	TPH
Vinyl Chloride	0.067	0.020		0.17	0.051	0.4	9/12/24	2:58	TPH
m&p-Xylene	0.36	0.040		1.6	0.17	0.4	9/12/24	2:58	TPH
o-Xylene	0.13	0.020		0.56	0.087	0.4	9/12/24	2:58	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130	9/12/24	2:58
4-Bromofluorobenzene (2)	98.1	70-130	9/12/24	2:58

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: IMP-1
Sample ID: 2410725-15
Sample Matrix: Sub Slab
Sampled: 9/4/2024 10:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1841
Canister Size: 6 liter
Flow Controller ID: 4700
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -1.0
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	6.2	0.80	V-05	15	1.9	0.4	9/12/24	3:58	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24	3:58	TPH
Benzene	0.19	0.020		0.59	0.064	0.4	9/12/24	3:58	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24	3:58	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24	3:58	TPH
2-Butanone (MEK)	1.6	0.80		4.8	2.4	0.4	9/12/24	3:58	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24	3:58	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24	3:58	TPH
Carbon Tetrachloride	0.052	0.010		0.33	0.063	0.4	9/12/24	3:58	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24	3:58	TPH
Chloroethane	0.029	0.020		0.077	0.053	0.4	9/12/24	3:58	TPH
Chloroform	0.040	0.010		0.20	0.049	0.4	9/12/24	3:58	TPH
Chloromethane	0.46	0.040		0.94	0.083	0.4	9/12/24	3:58	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24	3:58	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24	3:58	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24	3:58	TPH
1,3-Dichlorobenzene	0.023	0.020		0.14	0.12	0.4	9/12/24	3:58	TPH
1,4-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24	3:58	TPH
Dichlorodifluoromethane (Freon 12)	0.13	0.020		0.66	0.099	0.4	9/12/24	3:58	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24	3:58	TPH
1,2-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24	3:58	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24	3:58	TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24	3:58	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24	3:58	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24	3:58	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24	3:58	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24	3:58	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24	3:58	TPH
Ethylbenzene	0.13	0.020	0.58	0.087	0.4	9/12/24	3:58	TPH	
Isopropylbenzene (Cumene)	ND	0.051	ND	0.25	0.4	9/12/24	3:58	TPH	
p-Isopropyltoluene (p-Cymene)	0.050	0.046	0.28	0.25	0.4	9/12/24	3:58	TPH	
Methyl tert-Butyl Ether (MTBE)	ND	0.020	ND	0.072	0.4	9/12/24	3:58	TPH	
Methylene Chloride	ND	0.20	ND	0.69	0.4	9/12/24	3:58	TPH	
4-Methyl-2-pentanone (MIBK)	0.31	0.020	1.3	0.082	0.4	9/12/24	3:58	TPH	
Styrene	0.068	0.020	0.29	0.085	0.4	9/12/24	3:58	TPH	
1,1,1,2-Tetrachloroethane	ND	0.036	ND	0.25	0.4	9/12/24	3:58	TPH	
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.069	0.4	9/12/24	3:58	TPH	

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: IMP-1
Sample ID: 2410725-15
Sample Matrix: Sub Slab
Sampled: 9/4/2024 10:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1841
Canister Size: 6 liter
Flow Controller ID: 4700
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -1.0
Receipt Vacuum(in Hg): -2.6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Tetrachloroethylene	0.028	0.020		0.19	0.14	0.4	9/12/24	3:58	TPH
Toluene	0.41	0.020		1.6	0.075	0.4	9/12/24	3:58	TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	3:58	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	3:58	TPH
Trichloroethylene	0.034	0.010		0.18	0.054	0.4	9/12/24	3:58	TPH
Trichlorofluoromethane (Freon 11)	0.14	0.080		0.78	0.45	0.4	9/12/24	3:58	TPH
1,2,4-Trimethylbenzene	0.13	0.020		0.66	0.098	0.4	9/12/24	3:58	TPH
1,3,5-Trimethylbenzene	0.026	0.020		0.13	0.098	0.4	9/12/24	3:58	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/12/24	3:58	TPH
m&p-Xylene	0.50	0.040		2.2	0.17	0.4	9/12/24	3:58	TPH
o-Xylene	0.20	0.020		0.86	0.087	0.4	9/12/24	3:58	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	106	70-130	9/12/24 3:58	
4-Bromofluorobenzene (2)	99.2	70-130	9/12/24 3:58	

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: IMP-2
Sample ID: 24I0725-16
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 10:03

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1327
 Canister Size: 6 liter
 Flow Controller ID: 4671
 Sample Type: 30 min

Work Order: 24I0725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4.0
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	5.0	0.80		12	1.9	0.4	9/12/24 4:57		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24 4:57		TPH
Benzene	0.20	0.020		0.64	0.064	0.4	9/12/24 4:57		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24 4:57		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24 4:57		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/12/24 4:57		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24 4:57		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24 4:57		TPH
Carbon Tetrachloride	0.050	0.010		0.32	0.063	0.4	9/12/24 4:57		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24 4:57		TPH
Chloroethane	ND	0.020		ND	0.053	0.4	9/12/24 4:57		TPH
Chloroform	0.023	0.010		0.11	0.049	0.4	9/12/24 4:57		TPH
Chloromethane	0.35	0.040		0.73	0.083	0.4	9/12/24 4:57		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24 4:57		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24 4:57		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 4:57		TPH
1,3-Dichlorobenzene	0.026	0.020		0.16	0.12	0.4	9/12/24 4:57		TPH
1,4-Dichlorobenzene	0.028	0.020		0.17	0.12	0.4	9/12/24 4:57		TPH
Dichlorodifluoromethane (Freon 12)	0.13	0.020	V-05	0.62	0.099	0.4	9/12/24 4:57		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24 4:57		TPH
1,2-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24 4:57		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 4:57		TPH
cis-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 4:57		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 4:57		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24 4:57		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24 4:57		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 4:57		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 4:57		TPH
Ethylbenzene	0.14	0.020		0.60	0.087	0.4	9/12/24 4:57		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/12/24 4:57		TPH
p-Isopropyltoluene (p-Cymene)	ND	0.046		ND	0.25	0.4	9/12/24 4:57		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/12/24 4:57		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/12/24 4:57		TPH
4-Methyl-2-pentanone (MIBK)	0.11	0.020		0.46	0.082	0.4	9/12/24 4:57		TPH
Styrene	0.049	0.020		0.21	0.085	0.4	9/12/24 4:57		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/12/24 4:57		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/12/24 4:57		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: IMP-2
Sample ID: 2410725-16
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 10:03

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1327
 Canister Size: 6 liter
 Flow Controller ID: 4671
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -4.0
 Receipt Vacuum(in Hg): -2.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	0.020	0.020		0.14	0.14	0.4	9/12/24 4:57		TPH
Toluene	0.43	0.020		1.6	0.075	0.4	9/12/24 4:57		TPH
1,1,1-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24 4:57		TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24 4:57		TPH
Trichloroethylene	0.064	0.010		0.34	0.054	0.4	9/12/24 4:57		TPH
Trichlorofluoromethane (Freon 11)	0.15	0.080		0.83	0.45	0.4	9/12/24 4:57		TPH
1,2,4-Trimethylbenzene	0.14	0.020		0.68	0.098	0.4	9/12/24 4:57		TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/12/24 4:57		TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/12/24 4:57		TPH
m&p-Xylene	0.55	0.040		2.4	0.17	0.4	9/12/24 4:57		TPH
o-Xylene	0.18	0.020		0.80	0.087	0.4	9/12/24 4:57		TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	105	70-130	9/12/24 4:57	
4-Bromofluorobenzene (2)	97.3	70-130	9/12/24 4:57	

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rooftop Fan 1
Sample ID: 2410725-17
Sample Matrix: Sub Slab
Sampled: 9/4/2024 12:08

Sample Description/Location:
Sub Description/Location:
Canister ID: 1136
Canister Size: 6 liter
Flow Controller ID: 4266
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4.0
Receipt Vacuum(in Hg): -4.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	12	0.80		29	1.9	0.4	9/12/24	5:57	TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24	5:57	TPH
Benzene	0.27	0.020		0.86	0.064	0.4	9/12/24	5:57	TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24	5:57	TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24	5:57	TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/12/24	5:57	TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24	5:57	TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24	5:57	TPH
Carbon Tetrachloride	0.078	0.010		0.49	0.063	0.4	9/12/24	5:57	TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24	5:57	TPH
Chloroethane	0.022	0.020		0.058	0.053	0.4	9/12/24	5:57	TPH
Chloroform	0.046	0.010		0.23	0.049	0.4	9/12/24	5:57	TPH
Chloromethane	ND	0.040		ND	0.083	0.4	9/12/24	5:57	TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24	5:57	TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24	5:57	TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24	5:57	TPH
1,3-Dichlorobenzene	0.25	0.020		1.5	0.12	0.4	9/12/24	5:57	TPH
1,4-Dichlorobenzene	0.026	0.020		0.16	0.12	0.4	9/12/24	5:57	TPH
Dichlorodifluoromethane (Freon 12)	0.14	0.020	V-05	0.71	0.099	0.4	9/12/24	5:57	TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24	5:57	TPH
1,2-Dichloroethane	0.011	0.010		0.044	0.040	0.4	9/12/24	5:57	TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24	5:57	TPH
cis-1,2-Dichloroethylene	0.012	0.010		0.048	0.040	0.4	9/12/24	5:57	TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24	5:57	TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24	5:57	TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24	5:57	TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24	5:57	TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24	5:57	TPH
Ethylbenzene	0.15	0.020		0.67	0.087	0.4	9/12/24	5:57	TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/12/24	5:57	TPH
p-Isopropyltoluene (p-Cymene)	0.063	0.046		0.35	0.25	0.4	9/12/24	5:57	TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/12/24	5:57	TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/12/24	5:57	TPH
4-Methyl-2-pentanone (MIBK)	0.096	0.020		0.39	0.082	0.4	9/12/24	5:57	TPH
Styrene	0.089	0.020		0.38	0.085	0.4	9/12/24	5:57	TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/12/24	5:57	TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/12/24	5:57	TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island

Date Received: 9/5/2024

Field Sample #: Rooftop Fan 1
Sample ID: 2410725-17

Sample Matrix: Sub Slab

Sampled: 9/4/2024 12:08

Sample Description/Location:

Sub Description/Location:

Canister ID: 1136

Canister Size: 6 liter

Flow Controller ID: 4266

Sample Type: 30 min

Work Order: 2410725

Initial Vacuum(in Hg): -30

Final Vacuum(in Hg): -4.0

Receipt Vacuum(in Hg): -4.4

Flow Controller Type: Fixed-Orifice

Flow Controller Calibration

RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	2.5	0.020		17	0.14	0.4	9/12/24	5:57	TPH
Toluene	0.33	0.020		1.2	0.075	0.4	9/12/24	5:57	TPH
1,1,1-Trichloroethane	0.17	0.010		0.93	0.055	0.4	9/12/24	5:57	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	5:57	TPH
Trichloroethylene	9.2	0.010		50	0.054	0.4	9/12/24	5:57	TPH
Trichlorofluoromethane (Freon 11)	2.9	0.080		17	0.45	0.4	9/12/24	5:57	TPH
1,2,4-Trimethylbenzene	0.10	0.020		0.49	0.098	0.4	9/12/24	5:57	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/12/24	5:57	TPH
Vinyl Chloride	ND	0.020		ND	0.051	0.4	9/12/24	5:57	TPH
m&p-Xylene	0.64	0.040		2.8	0.17	0.4	9/12/24	5:57	TPH
o-Xylene	0.22	0.020		0.97	0.087	0.4	9/12/24	5:57	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	108	70-130	9/12/24 5:57	
4-Bromofluorobenzene (2)	102	70-130	9/12/24 5:57	

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rooftop Fan 3
Sample ID: 2410725-18
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 11:55

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1873
 Canister Size: 6 liter
 Flow Controller ID: 4739
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3.5
 Receipt Vacuum(in Hg): -1.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	28	1.2		66	2.9	0.6	9/18/24 16:24		TPH
Acrylonitrile	ND	0.17	V-07	ND	0.37	0.6	9/18/24 16:24		TPH
Benzene	0.25	0.030		0.81	0.096	0.6	9/18/24 16:24		TPH
Bromodichloromethane	ND	0.015		ND	0.10	0.6	9/18/24 16:24		TPH
Bromoform	ND	0.030		ND	0.31	0.6	9/18/24 16:24		TPH
2-Butanone (MEK)	ND	1.2		ND	3.5	0.6	9/18/24 16:24		TPH
n-Butylbenzene	ND	0.086		ND	0.47	0.6	9/18/24 16:24		TPH
sec-Butylbenzene	ND	0.068		ND	0.38	0.6	9/18/24 16:24		TPH
Carbon Tetrachloride	0.088	0.015	V-05	0.55	0.094	0.6	9/18/24 16:24		TPH
Chlorobenzene	ND	0.030		ND	0.14	0.6	9/18/24 16:24		TPH
Chloroethane	ND	0.030		ND	0.079	0.6	9/18/24 16:24		TPH
Chloroform	0.10	0.015		0.49	0.073	0.6	9/18/24 16:24		TPH
Chloromethane	ND	0.060		ND	0.12	0.6	9/18/24 16:24		TPH
Dibromochloromethane	ND	0.015		ND	0.13	0.6	9/18/24 16:24		TPH
1,2-Dibromoethane (EDB)	ND	0.015		ND	0.12	0.6	9/18/24 16:24		TPH
1,2-Dichlorobenzene	ND	0.030		ND	0.18	0.6	9/18/24 16:24		TPH
1,3-Dichlorobenzene	1.5	0.030		9.2	0.18	0.6	9/18/24 16:24		TPH
1,4-Dichlorobenzene	0.052	0.030		0.31	0.18	0.6	9/18/24 16:24		TPH
Dichlorodifluoromethane (Freon 12)	0.18	0.030	V-05	0.90	0.15	0.6	9/18/24 16:24		TPH
1,1-Dichloroethane	ND	0.015		ND	0.061	0.6	9/18/24 16:24		TPH
1,2-Dichloroethane	ND	0.015		ND	0.061	0.6	9/18/24 16:24		TPH
1,1-Dichloroethylene	ND	0.015		ND	0.059	0.6	9/18/24 16:24		TPH
cis-1,2-Dichloroethylene	0.24	0.015		0.95	0.059	0.6	9/18/24 16:24		TPH
trans-1,2-Dichloroethylene	ND	0.015		ND	0.059	0.6	9/18/24 16:24		TPH
1,2-Dichloropropane	ND	0.015		ND	0.069	0.6	9/18/24 16:24		TPH
1,3-Dichloropropane	ND	0.081		ND	0.37	0.6	9/18/24 16:24		TPH
cis-1,3-Dichloropropene	ND	0.015		ND	0.068	0.6	9/18/24 16:24		TPH
trans-1,3-Dichloropropene	ND	0.015		ND	0.068	0.6	9/18/24 16:24		TPH
Ethylbenzene	0.18	0.030		0.76	0.13	0.6	9/18/24 16:24		TPH
Isopropylbenzene (Cumene)	ND	0.076		ND	0.37	0.6	9/18/24 16:24		TPH
p-Isopropyltoluene (p-Cymene)	ND	0.068		ND	0.38	0.6	9/18/24 16:24		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.030		ND	0.11	0.6	9/18/24 16:24		TPH
Methylene Chloride	ND	0.30		ND	1.0	0.6	9/18/24 16:24		TPH
4-Methyl-2-pentanone (MIBK)	0.12	0.030		0.48	0.12	0.6	9/18/24 16:24		TPH
Styrene	0.080	0.030		0.34	0.13	0.6	9/18/24 16:24		TPH
1,1,1,2-Tetrachloroethane	ND	0.055		ND	0.37	0.6	9/18/24 16:24		TPH
1,1,2,2-Tetrachloroethane	ND	0.015		ND	0.10	0.6	9/18/24 16:24		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
 Date Received: 9/5/2024
Field Sample #: Rooftop Fan 3
Sample ID: 2410725-18
 Sample Matrix: Sub Slab
 Sampled: 9/4/2024 11:55

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1873
 Canister Size: 6 liter
 Flow Controller ID: 4739
 Sample Type: 30 min

Work Order: 2410725
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -3.5
 Receipt Vacuum(in Hg): -1.6
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	8.2	0.030		56	0.20	0.6	9/18/24 16:24		TPH
Toluene	0.66	0.030		2.5	0.11	0.6	9/18/24 16:24		TPH
1,1,1-Trichloroethane	0.079	0.015		0.43	0.082	0.6	9/18/24 16:24		TPH
1,1,2-Trichloroethane	ND	0.015		ND	0.082	0.6	9/18/24 16:24		TPH
Trichloroethylene	7.4	0.015		40	0.081	0.6	9/18/24 16:24		TPH
Trichlorofluoromethane (Freon 11)	0.97	0.12		5.4	0.67	0.6	9/18/24 16:24		TPH
1,2,4-Trimethylbenzene	0.17	0.030		0.84	0.15	0.6	9/18/24 16:24		TPH
1,3,5-Trimethylbenzene	ND	0.030		ND	0.15	0.6	9/18/24 16:24		TPH
Vinyl Chloride	ND	0.030		ND	0.077	0.6	9/18/24 16:24		TPH
m&p-Xylene	0.70	0.060		3.0	0.26	0.6	9/18/24 16:24		TPH
o-Xylene	0.24	0.030		1.0	0.13	0.6	9/18/24 16:24		TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	115	70-130	9/18/24 16:24
4-Bromofluorobenzene (2)	112	70-130	9/18/24 16:24

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rooftop Fan 2
Sample ID: 2410725-19
Sample Matrix: Sub Slab
Sampled: 9/4/2024 12:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1869
Canister Size: 6 liter
Flow Controller ID: 4738
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.0
Receipt Vacuum(in Hg): -1.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15									
Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Acetone	6.7	0.80		16	1.9	0.4	9/12/24 7:53		TPH
Acrylonitrile	ND	0.12		ND	0.25	0.4	9/12/24 7:53		TPH
Benzene	0.24	0.020		0.76	0.064	0.4	9/12/24 7:53		TPH
Bromodichloromethane	ND	0.010		ND	0.067	0.4	9/12/24 7:53		TPH
Bromoform	ND	0.020		ND	0.21	0.4	9/12/24 7:53		TPH
2-Butanone (MEK)	ND	0.80		ND	2.4	0.4	9/12/24 7:53		TPH
n-Butylbenzene	ND	0.058		ND	0.32	0.4	9/12/24 7:53		TPH
sec-Butylbenzene	ND	0.046		ND	0.25	0.4	9/12/24 7:53		TPH
Carbon Tetrachloride	0.090	0.010		0.57	0.063	0.4	9/12/24 7:53		TPH
Chlorobenzene	ND	0.020		ND	0.092	0.4	9/12/24 7:53		TPH
Chloroethane	0.067	0.020		0.18	0.053	0.4	9/12/24 7:53		TPH
Chloroform	0.092	0.010		0.45	0.049	0.4	9/12/24 7:53		TPH
Chloromethane	1.5	0.040		3.1	0.083	0.4	9/12/24 7:53		TPH
Dibromochloromethane	ND	0.010		ND	0.085	0.4	9/12/24 7:53		TPH
1,2-Dibromoethane (EDB)	ND	0.010		ND	0.077	0.4	9/12/24 7:53		TPH
1,2-Dichlorobenzene	ND	0.020		ND	0.12	0.4	9/12/24 7:53		TPH
1,3-Dichlorobenzene	1.6	0.020		9.4	0.12	0.4	9/12/24 7:53		TPH
1,4-Dichlorobenzene	0.048	0.020		0.29	0.12	0.4	9/12/24 7:53		TPH
Dichlorodifluoromethane (Freon 12)	0.16	0.020	V-05	0.81	0.099	0.4	9/12/24 7:53		TPH
1,1-Dichloroethane	ND	0.010		ND	0.040	0.4	9/12/24 7:53		TPH
1,2-Dichloroethane	0.012	0.010		0.047	0.040	0.4	9/12/24 7:53		TPH
1,1-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 7:53		TPH
cis-1,2-Dichloroethylene	0.033	0.010		0.13	0.040	0.4	9/12/24 7:53		TPH
trans-1,2-Dichloroethylene	ND	0.010		ND	0.040	0.4	9/12/24 7:53		TPH
1,2-Dichloropropane	ND	0.010		ND	0.046	0.4	9/12/24 7:53		TPH
1,3-Dichloropropane	ND	0.054		ND	0.25	0.4	9/12/24 7:53		TPH
cis-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 7:53		TPH
trans-1,3-Dichloropropene	ND	0.010		ND	0.045	0.4	9/12/24 7:53		TPH
Ethylbenzene	0.12	0.020		0.52	0.087	0.4	9/12/24 7:53		TPH
Isopropylbenzene (Cumene)	ND	0.051		ND	0.25	0.4	9/12/24 7:53		TPH
p-Isopropyltoluene (p-Cymene)	0.077	0.046		0.42	0.25	0.4	9/12/24 7:53		TPH
Methyl tert-Butyl Ether (MTBE)	ND	0.020		ND	0.072	0.4	9/12/24 7:53		TPH
Methylene Chloride	ND	0.20		ND	0.69	0.4	9/12/24 7:53		TPH
4-Methyl-2-pentanone (MIBK)	0.076	0.020		0.31	0.082	0.4	9/12/24 7:53		TPH
Styrene	0.071	0.020		0.30	0.085	0.4	9/12/24 7:53		TPH
1,1,1,2-Tetrachloroethane	ND	0.036		ND	0.25	0.4	9/12/24 7:53		TPH
1,1,2,2-Tetrachloroethane	ND	0.010		ND	0.069	0.4	9/12/24 7:53		TPH

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ANALYTICAL RESULTS

Project Location: Rhode Island
Date Received: 9/5/2024
Field Sample #: Rooftop Fan 2
Sample ID: 2410725-19
Sample Matrix: Sub Slab
Sampled: 9/4/2024 12:05

Sample Description/Location:
Sub Description/Location:
Canister ID: 1869
Canister Size: 6 liter
Flow Controller ID: 4738
Sample Type: 30 min

Work Order: 2410725
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3.0
Receipt Vacuum(in Hg): -1.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Tetrachloroethylene	2.0	0.020		13	0.14	0.4	9/12/24	7:53	TPH
Toluene	0.77	0.020		2.9	0.075	0.4	9/12/24	7:53	TPH
1,1,1-Trichloroethane	0.045	0.010		0.25	0.055	0.4	9/12/24	7:53	TPH
1,1,2-Trichloroethane	ND	0.010		ND	0.055	0.4	9/12/24	7:53	TPH
Trichloroethylene	11	0.010		59	0.054	0.4	9/12/24	7:53	TPH
Trichlorofluoromethane (Freon 11)	6.6	0.080		37	0.45	0.4	9/12/24	7:53	TPH
1,2,4-Trimethylbenzene	0.15	0.020		0.72	0.098	0.4	9/12/24	7:53	TPH
1,3,5-Trimethylbenzene	ND	0.020		ND	0.098	0.4	9/12/24	7:53	TPH
Vinyl Chloride	0.12	0.020		0.30	0.051	0.4	9/12/24	7:53	TPH
m&p-Xylene	0.48	0.040		2.1	0.17	0.4	9/12/24	7:53	TPH
o-Xylene	0.18	0.020		0.76	0.087	0.4	9/12/24	7:53	TPH

Surrogates	% Recovery	% REC Limits		
4-Bromofluorobenzene (1)	110	70-130	9/12/24 7:53	
4-Bromofluorobenzene (2)	98.1	70-130	9/12/24 7:53	

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Sample Extraction Data

Prep Method:TO-15 Prep Analytical Method: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
24I0725-01 [Gym]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-02 [Cafeteria]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-03 [Kitchen Storage]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-04 [Elevator Hallway]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-05 [Rm. 145]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-06 [Rm. 152]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-07 [Rm. 118]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-08 [Rm. 110]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-09 [Rm. 116]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-10 [Outdoor Ambient]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-11 [MP-1]	B386587	1	1	N/A	1000	400	1000	09/10/24
24I0725-12 [MP-3]	B386587	1	1	N/A	1000	400	1000	09/10/24

Prep Method:TO-15 Prep Analytical Method: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
24I0725-13 [MP-4]	B386589	1	1	N/A	1000	400	1000	09/11/24
24I0725-14 [MP-6]	B386589	1	1	N/A	1000	400	1000	09/11/24
24I0725-15 [IMP-1]	B386589	1	1	N/A	1000	400	1000	09/11/24
24I0725-16 [IMP-2]	B386589	1	1	N/A	1000	400	1000	09/11/24
24I0725-17 [Rooftop Fan 1]	B386589	1	1	N/A	1000	400	1000	09/11/24
24I0725-19 [Rooftop Fan 2]	B386589	1	1	N/A	1000	400	1000	09/11/24

Prep Method:TO-15 Prep Analytical Method: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
24I0725-18 [Rooftop Fan 3]	B386634	1.5	1	N/A	1000	400	1000	09/18/24

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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 B386587 - TO-15 Prep
Blank (B386587-BLK1)

Prepared & Analyzed: 09/10/24

Acetone	ND	0.80
Acrylonitrile	ND	0.12
Benzene	ND	0.020
Bromodichloromethane	ND	0.010
Bromoform	ND	0.020
2-Butanone (MEK)	ND	0.80
n-Butylbenzene	ND	0.058
sec-Butylbenzene	ND	0.046
Carbon Tetrachloride	ND	0.010
Chlorobenzene	ND	0.020
Chloroethane	ND	0.020
Chloroform	ND	0.010
Chloromethane	ND	0.040
Dibromochloromethane	ND	0.010
1,2-Dibromoethane (EDB)	ND	0.010
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.010
1,2-Dichloroethane	ND	0.010
1,1-Dichloroethylene	ND	0.010
cis-1,2-Dichloroethylene	ND	0.010
trans-1,2-Dichloroethylene	ND	0.010
1,2-Dichloropropane	ND	0.010
1,3-Dichloropropane	ND	0.054
cis-1,3-Dichloropropene	ND	0.010
trans-1,3-Dichloropropene	ND	0.010
Ethylbenzene	ND	0.020
Isopropylbenzene (Cumene)	ND	0.051
p-Isopropyltoluene (p-Cymene)	ND	0.046
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020
Styrene	ND	0.020
1,1,1,2-Tetrachloroethane	ND	0.036
1,1,2,2-Tetrachloroethane	ND	0.010
Tetrachloroethylene	ND	0.020
Toluene	ND	0.020
1,1,1-Trichloroethane	ND	0.010
1,1,2-Trichloroethane	ND	0.010
Trichloroethylene	ND	0.010
Trichlorofluoromethane (Freon 11)	ND	0.080
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
Vinyl Chloride	ND	0.020

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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 B386587 - TO-15 Prep											
Blank (B386587-BLK1)					Prepared & Analyzed: 09/10/24						
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	9.18				8.000		115	70-130			
Surrogate: 4-Bromofluorobenzene (2)	9.77				8.000		122	70-130			
LCS (B386587-BS1)					Prepared & Analyzed: 09/10/24						
Acetone	4.45				5.000		89.0	70-130			
Acrylonitrile	2.49				2.880		86.5	70-130			
Benzene	4.60				5.000		92.0	70-130			
Bromodichloromethane	4.56				5.000		91.2	70-130			
Bromoform	5.55				5.000		111	70-130			
2-Butanone (MEK)	4.57				5.000		91.4	70-130			
n-Butylbenzene	1.27				1.140		111	70-130			
sec-Butylbenzene	1.24				1.140		109	70-130			
Carbon Tetrachloride	5.14				5.000		103	70-130			
Chlorobenzene	4.74				5.000		94.8	70-130			
Chloroethane	4.08				5.000		81.6	70-130			
Chloroform	5.02				5.000		100	70-130			
Chloromethane	4.43				5.000		88.6	70-130			
Dibromochloromethane	5.07				5.000		101	70-130			
1,2-Dibromoethane (EDB)	4.64				5.000		92.8	70-130			
1,2-Dichlorobenzene	5.56				5.000		111	70-130			
1,3-Dichlorobenzene	5.75				5.000		115	70-130			
1,4-Dichlorobenzene	5.61				5.000		112	70-130			
Dichlorodifluoromethane (Freon 12)	4.92				5.000		98.4	70-130			
1,1-Dichloroethane	4.81				5.000		96.2	70-130			
1,2-Dichloroethane	5.21				5.000		104	70-130			
1,1-Dichloroethylene	5.01				5.000		100	70-130			
cis-1,2-Dichloroethylene	4.96				5.000		99.2	70-130			
trans-1,2-Dichloroethylene	4.98				5.000		99.6	70-130			
1,2-Dichloropropane	4.06				5.000		81.2	70-130			
1,3-Dichloropropane	1.40				1.350		104	70-130			
cis-1,3-Dichloropropene	4.61				5.000		92.2	70-130			
trans-1,3-Dichloropropene	5.46				5.000		109	70-130			
Ethylbenzene	5.01				5.000		100	70-130			
Isopropylbenzene (Cumene)	1.29				1.270		102	70-130			
p-Isopropyltoluene (p-Cymene)	1.29				1.140		113	70-130			
Methyl tert-Butyl Ether (MTBE)	5.25				5.000		105	70-130			
Methylene Chloride	4.39				5.000		87.8	70-130			
4-Methyl-2-pentanone (MIBK)	4.94				5.000		98.8	70-130			
Styrene	5.33				5.000		107	70-130			
1,1,1,2-Tetrachloroethane	1.35				0.9100		148 *	70-130			L-01
1,1,2,2-Tetrachloroethane	4.44				5.000		88.8	70-130			
Tetrachloroethylene	5.33				5.000		107	70-130			
Toluene	4.99				5.000		99.8	70-130			
1,1,1-Trichloroethane	4.70				5.000		94.0	70-130			
1,1,2-Trichloroethane	4.60				5.000		92.0	70-130			

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

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

Batch B386587 - TO-15 Prep
LCS (B386587-BS1)

Prepared & Analyzed: 09/10/24

Trichloroethylene	4.79				5.000		95.8	70-130		
Trichlorofluoromethane (Freon 11)	5.32				5.000		106	70-130		
1,2,4-Trimethylbenzene	5.49				5.000		110	70-130		
1,3,5-Trimethylbenzene	5.43				5.000		109	70-130		
Vinyl Chloride	4.41				5.000		88.2	70-130		
m&p-Xylene	11.0				10.00		110	70-130		
o-Xylene	5.24				5.000		105	70-130		
Surrogate: 4-Bromofluorobenzene (1)	9.29				8.000		116	70-130		
Surrogate: 4-Bromofluorobenzene (2)	9.40				8.000		118	70-130		

Batch B386589 - TO-15 Prep
Blank (B386589-BLK1)

Prepared: 09/11/24 Analyzed: 09/12/24

Acetone	ND	0.80
Acrylonitrile	ND	0.12
Benzene	ND	0.020
Bromodichloromethane	ND	0.010
Bromoform	ND	0.020
2-Butanone (MEK)	ND	0.80
n-Butylbenzene	ND	0.058
sec-Butylbenzene	ND	0.046
Carbon Tetrachloride	ND	0.010
Chlorobenzene	ND	0.020
Chloroethane	ND	0.020
Chloroform	ND	0.010
Chloromethane	ND	0.040
Dibromochloromethane	ND	0.010
1,2-Dibromoethane (EDB)	ND	0.010
1,2-Dichlorobenzene	ND	0.020
1,3-Dichlorobenzene	ND	0.020
1,4-Dichlorobenzene	ND	0.020
Dichlorodifluoromethane (Freon 12)	ND	0.020
1,1-Dichloroethane	ND	0.010
1,2-Dichloroethane	ND	0.010
1,1-Dichloroethylene	ND	0.010
cis-1,2-Dichloroethylene	ND	0.010
trans-1,2-Dichloroethylene	ND	0.010
1,2-Dichloropropane	ND	0.010
1,3-Dichloropropane	ND	0.054
cis-1,3-Dichloropropene	ND	0.010
trans-1,3-Dichloropropene	ND	0.010
Ethylbenzene	ND	0.020
Isopropylbenzene (Cumene)	ND	0.051
p-Isopropyltoluene (p-Cymene)	ND	0.046
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Methylene Chloride	ND	0.20
4-Methyl-2-pentanone (MIBK)	ND	0.020

V-05

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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	Limits	RPD	Limit	

Batch B386589 - TO-15 Prep
Blank (B386589-BLK1)

Prepared: 09/11/24 Analyzed: 09/12/24

Styrene	ND	0.020								
1,1,1,2-Tetrachloroethane	ND	0.036								
1,1,2,2-Tetrachloroethane	ND	0.010								
Tetrachloroethylene	ND	0.020								
Toluene	ND	0.020								
1,1,1-Trichloroethane	ND	0.010								
1,1,2-Trichloroethane	ND	0.010								
Trichloroethylene	ND	0.010								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Chloride	ND	0.020								
m&p-Xylene	ND	0.040								
o-Xylene	ND	0.020								
Surrogate: 4-Bromofluorobenzene (1)	8.73				8.000		109	70-130		
Surrogate: 4-Bromofluorobenzene (2)	7.76				8.000		97.0	70-130		

LCS (B386589-BS1)

Prepared & Analyzed: 09/11/24

Acetone	4.62				5.000		92.4	70-130		
Acrylonitrile	3.87				2.880		134 *	70-130		L-01
Benzene	5.21				5.000		104	70-130		
Bromodichloromethane	4.91				5.000		98.2	70-130		
Bromoform	5.45				5.000		109	70-130		
2-Butanone (MEK)	4.80				5.000		96.0	70-130		
n-Butylbenzene	1.23				1.140		108	70-130		
sec-Butylbenzene	1.18				1.140		104	70-130		
Carbon Tetrachloride	5.17				5.000		103	70-130		
Chlorobenzene	4.84				5.000		96.8	70-130		
Chloroethane	4.38				5.000		87.6	70-130		
Chloroform	4.28				5.000		85.6	70-130		
Chloromethane	4.49				5.000		89.8	70-130		
Dibromochloromethane	5.05				5.000		101	70-130		
1,2-Dibromoethane (EDB)	4.85				5.000		97.0	70-130		
1,2-Dichlorobenzene	5.53				5.000		111	70-130		
1,3-Dichlorobenzene	5.65				5.000		113	70-130		
1,4-Dichlorobenzene	5.58				5.000		112	70-130		
Dichlorodifluoromethane (Freon 12)	3.70				5.000		74.0	70-130		V-05
1,1-Dichloroethane	4.48				5.000		89.6	70-130		
1,2-Dichloroethane	4.54				5.000		90.8	70-130		
1,1-Dichloroethylene	4.74				5.000		94.8	70-130		
cis-1,2-Dichloroethylene	4.63				5.000		92.6	70-130		
trans-1,2-Dichloroethylene	4.61				5.000		92.2	70-130		
1,2-Dichloropropane	4.89				5.000		97.8	70-130		
1,3-Dichloropropane	1.38				1.350		102	70-130		
cis-1,3-Dichloropropene	5.09				5.000		102	70-130		
trans-1,3-Dichloropropene	5.96				5.000		119	70-130		
Ethylbenzene	5.40				5.000		108	70-130		

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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 B386589 - TO-15 Prep											
LCS (B386589-BS1)					Prepared & Analyzed: 09/11/24						
Isopropylbenzene (Cumene)	1.18				1.270		92.9	70-130			
p-Isopropyltoluene (p-Cymene)	1.16				1.140		102	70-130			
Methyl tert-Butyl Ether (MTBE)	4.73				5.000		94.6	70-130			
Methylene Chloride	4.48				5.000		89.6	70-130			
4-Methyl-2-pentanone (MIBK)	6.33				5.000		127	70-130			
Styrene	5.58				5.000		112	70-130			
1,1,1,2-Tetrachloroethane	1.16				0.9100		127	70-130			
1,1,2,2-Tetrachloroethane	4.95				5.000		99.0	70-130			
Tetrachloroethylene	5.24				5.000		105	70-130			
Toluene	5.28				5.000		106	70-130			
1,1,1-Trichloroethane	4.90				5.000		98.0	70-130			
1,1,2-Trichloroethane	4.82				5.000		96.4	70-130			
Trichloroethylene	5.02				5.000		100	70-130			
Trichlorofluoromethane (Freon 11)	4.71				5.000		94.2	70-130			
1,2,4-Trimethylbenzene	5.79				5.000		116	70-130			
1,3,5-Trimethylbenzene	5.65				5.000		113	70-130			
Vinyl Chloride	4.42				5.000		88.4	70-130			
m&p-Xylene	11.8				10.00		118	70-130			
o-Xylene	5.55				5.000		111	70-130			
Surrogate: 4-Bromofluorobenzene (1)	9.10				8.000		114	70-130			
Surrogate: 4-Bromofluorobenzene (2)	7.45				8.000		93.1	70-130			
Duplicate (B386589-DUP1)					Source: 24I0725-19		Prepared: 09/11/24 Analyzed: 09/12/24				
Acetone	14	2.0	33	4.8		6.7			71.5	25	R-01
Acrylonitrile	ND	0.29	ND	0.62		ND				25	
Benzene	0.21	0.050	0.66	0.16		0.24			13.9	25	
Bromodichloromethane	ND	0.025	ND	0.17		ND				25	
Bromoform	ND	0.050	ND	0.52		ND				25	
2-Butanone (MEK)	0.54	2.0	1.6	5.9		0.44			20.0	25	
n-Butylbenzene	ND	0.14	ND	0.79		ND				25	
sec-Butylbenzene	ND	0.11	ND	0.63		ND				25	
Carbon Tetrachloride	0.071	0.025	0.45	0.16		0.090			24.0	25	
Chlorobenzene	ND	0.050	ND	0.23		ND				25	
Chloroethane	0.054	0.050	0.14	0.13		0.067			21.2	25	
Chloroform	0.076	0.025	0.37	0.12		0.092			19.5	25	
Chloromethane	1.4	0.10	3.0	0.21		1.5			3.23	25	
Dibromochloromethane	ND	0.025	ND	0.21		ND				25	
1,2-Dibromoethane (EDB)	ND	0.025	ND	0.19		ND				25	
1,2-Dichlorobenzene	ND	0.050	ND	0.30		ND				25	
1,3-Dichlorobenzene	1.2	0.050	7.2	0.30		1.6			26.4	25	R-01
1,4-Dichlorobenzene	0.034	0.050	0.20	0.30		0.048			34.1	25	R-01
Dichlorodifluoromethane (Freon 12)	0.21	0.050	1.0	0.25		0.16			23.4	25	V-05
1,1-Dichloroethane	ND	0.025	ND	0.10		ND				25	
1,2-Dichloroethane	ND	0.025	ND	0.10		ND				25	
1,1-Dichloroethylene	ND	0.025	ND	0.099		ND				25	
cis-1,2-Dichloroethylene	0.024	0.025	0.095	0.099		0.033			32.2	25	R-01
trans-1,2-Dichloroethylene	ND	0.025	ND	0.099		ND				25	

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QUALITY CONTROL
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Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual	
	Results	RL	Results	RL								
Batch B386589 - TO-15 Prep												
Duplicate (B386589-DUP1)	Source: 2410725-19				Prepared: 09/11/24 Analyzed: 09/12/24							
1,2-Dichloropropane	ND	0.025	ND	0.12		ND				25		
1,3-Dichloropropane	ND	0.14	ND	0.62		ND				25		
cis-1,3-Dichloropropene	ND	0.025	ND	0.11		ND				25		
trans-1,3-Dichloropropene	ND	0.025	ND	0.11		ND				25		
Ethylbenzene	0.098	0.050	0.43	0.22		0.12			19.2	25		
Isopropylbenzene (Cumene)	ND	0.13	ND	0.62		ND				25		
p-Isopropyltoluene (p-Cymene)	0.057	0.11	0.31	0.63		0.077			30.1	25	R-01	
Methyl tert-Butyl Ether (MTBE)	ND	0.050	ND	0.18		ND				25		
Methylene Chloride	0.17	0.50	0.58	1.7		0.18			5.47	25		
4-Methyl-2-pentanone (MIBK)	0.066	0.050	0.27	0.20		0.076			14.6	25		
Styrene	0.054	0.050	0.23	0.21		0.071			27.5	25	R-01	
1,1,1,2-Tetrachloroethane	ND	0.091	ND	0.62		ND				25		
1,1,2,2-Tetrachloroethane	ND	0.025	ND	0.17		ND				25		
Tetrachloroethylene	1.6	0.050	11	0.34		2.0			21.2	25		
Toluene	0.63	0.050	2.4	0.19		0.77			20.0	25		
1,1,1-Trichloroethane	0.035	0.025	0.19	0.14		0.045			25.4	25	R-01	
1,1,2-Trichloroethane	ND	0.025	ND	0.14		ND				25		
Trichloroethylene	8.4	0.025	45	0.13		11			27.7	25	R-01	
Trichlorofluoromethane (Freon 11)	5.3	0.20	30	1.1		6.6			23.2	25		
1,2,4-Trimethylbenzene	0.11	0.050	0.55	0.25		0.15			27.8	25	R-01	
1,3,5-Trimethylbenzene	ND	0.050	ND	0.25		ND				25		
Vinyl Chloride	0.095	0.050	0.24	0.13		0.12			21.6	25		
m&p-Xylene	0.37	0.10	1.6	0.43		0.48			27.0	25	R-01	
o-Xylene	0.14	0.050	0.61	0.22		0.18			22.6	25		
Surrogate: 4-Bromofluorobenzene (1)	8.57					8.000	107	70-130				
Surrogate: 4-Bromofluorobenzene (2)	7.98					8.000	99.7	70-130				

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QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

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

Batch B386634 - TO-15 Prep
Blank (B386634-BLK1)

Prepared & Analyzed: 09/18/24

Acetone	ND	0.80								
Acrylonitrile	ND	0.12								
Benzene	ND	0.020								
Bromodichloromethane	ND	0.010								
Bromoform	ND	0.020								
2-Butanone (MEK)	ND	0.80								
n-Butylbenzene	ND	0.058								
sec-Butylbenzene	ND	0.046								
Carbon Tetrachloride	ND	0.010								V-05
Chlorobenzene	ND	0.020								
Chloroethane	ND	0.020								
Chloroform	ND	0.010								
Chloromethane	ND	0.040								
Dibromochloromethane	ND	0.010								
1,2-Dibromoethane (EDB)	ND	0.010								
1,2-Dichlorobenzene	ND	0.020								
1,3-Dichlorobenzene	ND	0.020								
1,4-Dichlorobenzene	ND	0.020								
Dichlorodifluoromethane (Freon 12)	ND	0.020								V-05
1,1-Dichloroethane	ND	0.010								
1,2-Dichloroethane	ND	0.010								
1,1-Dichloroethylene	ND	0.010								
cis-1,2-Dichloroethylene	ND	0.010								
trans-1,2-Dichloroethylene	ND	0.010								
1,2-Dichloropropane	ND	0.010								
1,3-Dichloropropane	ND	0.054								
cis-1,3-Dichloropropene	ND	0.010								
trans-1,3-Dichloropropene	ND	0.010								
Ethylbenzene	ND	0.020								
Isopropylbenzene (Cumene)	ND	0.051								
p-Isopropyltoluene (p-Cymene)	ND	0.046								
Methyl tert-Butyl Ether (MTBE)	ND	0.020								
Methylene Chloride	ND	0.20								
4-Methyl-2-pentanone (MIBK)	ND	0.020								
Styrene	ND	0.020								
1,1,1,2-Tetrachloroethane	ND	0.036								
1,1,2,2-Tetrachloroethane	ND	0.010								
Tetrachloroethylene	ND	0.020								
Toluene	ND	0.020								
1,1,1-Trichloroethane	ND	0.010								
1,1,2-Trichloroethane	ND	0.010								
Trichloroethylene	ND	0.010								
Trichlorofluoromethane (Freon 11)	ND	0.080								
1,2,4-Trimethylbenzene	ND	0.020								
1,3,5-Trimethylbenzene	ND	0.020								
Vinyl Chloride	ND	0.020								

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QUALITY CONTROL
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Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result		Limits		Limit	
Batch B386634 - TO-15 Prep											
Blank (B386634-BLK1)					Prepared & Analyzed: 09/18/24						
m&p-Xylene	ND	0.040									
o-Xylene	ND	0.020									
Surrogate: 4-Bromofluorobenzene (1)	8.71				8.000		109	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.28				8.000		103	70-130			
LCS (B386634-BS1)					Prepared & Analyzed: 09/18/24						
Acetone	4.76				5.000		95.2	70-130			
Acrylonitrile	2.94				2.880		102	70-130			
Benzene	4.85				5.000		97.0	70-130			
Bromodichloromethane	4.46				5.000		89.2	70-130			
Bromoform	5.12				5.000		102	70-130			
2-Butanone (MEK)	4.85				5.000		97.0	70-130			
n-Butylbenzene	1.31				1.140		115	70-130			
sec-Butylbenzene	1.34				1.140		118	70-130			
Carbon Tetrachloride	4.89				5.000		97.8	70-130			V-05
Chlorobenzene	4.57				5.000		91.4	70-130			
Chloroethane	4.45				5.000		89.0	70-130			
Chloroform	4.57				5.000		91.4	70-130			
Chloromethane	4.73				5.000		94.6	70-130			
Dibromochloromethane	4.77				5.000		95.4	70-130			
1,2-Dibromoethane (EDB)	4.56				5.000		91.2	70-130			
1,2-Dichlorobenzene	5.24				5.000		105	70-130			
1,3-Dichlorobenzene	5.42				5.000		108	70-130			
1,4-Dichlorobenzene	5.34				5.000		107	70-130			
Dichlorodifluoromethane (Freon 12)	3.85				5.000		77.0	70-130			V-05
1,1-Dichloroethane	4.60				5.000		92.0	70-130			
1,2-Dichloroethane	4.90				5.000		98.0	70-130			
1,1-Dichloroethylene	4.99				5.000		99.8	70-130			
cis-1,2-Dichloroethylene	4.88				5.000		97.6	70-130			
trans-1,2-Dichloroethylene	4.86				5.000		97.2	70-130			
1,2-Dichloropropane	4.31				5.000		86.2	70-130			
1,3-Dichloropropane	1.37				1.350		101	70-130			
cis-1,3-Dichloropropene	4.77				5.000		95.4	70-130			
trans-1,3-Dichloropropene	5.66				5.000		113	70-130			
Ethylbenzene	5.15				5.000		103	70-130			
Isopropylbenzene (Cumene)	1.31				1.270		103	70-130			
p-Isopropyltoluene (p-Cymene)	1.33				1.140		117	70-130			
Methyl tert-Butyl Ether (MTBE)	5.07				5.000		101	70-130			
Methylene Chloride	4.37				5.000		87.4	70-130			
4-Methyl-2-pentanone (MIBK)	5.58				5.000		112	70-130			
Styrene	5.32				5.000		106	70-130			
1,1,1,2-Tetrachloroethane	1.24				0.9100		136 *	70-130			L-01
1,1,2,2-Tetrachloroethane	4.33				5.000		86.6	70-130			
Tetrachloroethylene	5.05				5.000		101	70-130			
Toluene	5.03				5.000		101	70-130			
1,1,1-Trichloroethane	4.63				5.000		92.6	70-130			
1,1,2-Trichloroethane	4.33				5.000		86.6	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

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

Batch B386634 - TO-15 Prep

LCS (B386634-BS1)

Prepared & Analyzed: 09/18/24

Trichloroethylene	4.75				5.000		95.0	70-130		
Trichlorofluoromethane (Freon 11)	5.01				5.000		100	70-130		
1,2,4-Trimethylbenzene	5.56				5.000		111	70-130		
1,3,5-Trimethylbenzene	5.45				5.000		109	70-130		
Vinyl Chloride	4.68				5.000		93.6	70-130		
m&p-Xylene	11.1				10.00		111	70-130		
o-Xylene	5.16				5.000		103	70-130		
Surrogate: 4-Bromofluorobenzene (1)	9.01				8.000		113	70-130		
Surrogate: 4-Bromofluorobenzene (2)	8.58				8.000		107	70-130		

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
R-01	Duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-07	Reported result is estimated. Internal standard area did not meet method specifications.

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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 (S100759-ICV1) Lab File ID: G24A052016.D Analyzed: 02/21/24 06:08									
Bromochloromethane (1)	585119	8.024	623550	8.03	94	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1633998	9.792	1640491	9.798	100	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1489687	14.151	1505348	14.151	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1682759	9.792	1705811	9.792	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	360082	14.151	365297	14.151	99	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 (S110748-CCV1) Lab File ID: G24A254003.D Analyzed: 09/10/24 10:37									
Bromochloromethane (1)	582539	8.018				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	1602419	9.792				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	1505777	14.145				60 - 140		+/-0.50	
1,4-Difluorobenzene (2)	1606336	9.786				60 - 140		+/-0.50	
Chlorobenzene-d5 (2)	352019	14.145				60 - 140		+/-0.50	
LCS (B386587-BS1) Lab File ID: G24A254004.D Analyzed: 09/10/24 11:17									
Bromochloromethane (1)	600047	8.018	582539	8.018	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1663852	9.792	1602419	9.792	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1517818	14.145	1505777	14.145	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1616715	9.786	1606336	9.786	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	350903	14.145	352019	14.145	100	60 - 140	0.0000	+/-0.50	
Blank (B386587-BLK1) Lab File ID: G24A254009.D Analyzed: 09/10/24 14:53									
Bromochloromethane (1)	548278	8.024	582539	8.018	94	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1509288	9.792	1602419	9.792	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1387101	14.145	1505777	14.145	92	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1509288	9.792	1606336	9.786	94	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	318042	14.145	352019	14.145	90	60 - 140	0.0000	+/-0.50	
Gym (2410725-01) Lab File ID: G24A254010.D Analyzed: 09/10/24 15:51									
Bromochloromethane (1)	555798	8.024	582539	8.018	95	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1524172	9.792	1602419	9.792	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1439690	14.145	1505777	14.145	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1524172	9.792	1606336	9.786	95	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	335378	14.145	352019	14.145	95	60 - 140	0.0000	+/-0.50	

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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
Cafeteria (24I0725-02)									
Lab File ID: G24A254011.D					Analyzed: 09/10/24 16:50				
Bromochloromethane (1)	553696	8.018	582539	8.018	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1474385	9.786	1602419	9.792	92	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1362950	14.145	1505777	14.145	91	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1474874	9.786	1606336	9.786	92	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	322092	14.138	352019	14.145	91	60 - 140	-0.0070	+/-0.50	
Kitchen Storage (24I0725-03)									
Lab File ID: G24A254012.D					Analyzed: 09/10/24 17:45				
Bromochloromethane (1)	573456	8.018	582539	8.018	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1563719	9.786	1602419	9.792	98	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1448969	14.145	1505777	14.145	96	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1564193	9.786	1606336	9.786	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	341060	14.138	352019	14.145	97	60 - 140	-0.0070	+/-0.50	
Elevator Hallway (24I0725-04)									
Lab File ID: G24A254013.D					Analyzed: 09/10/24 18:44				
Bromochloromethane (1)	559051	8.017	582539	8.018	96	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (1)	1517885	9.785	1602419	9.792	95	60 - 140	-0.0070	+/-0.50	
Chlorobenzene-d5 (1)	1410494	14.138	1505777	14.145	94	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (2)	1518490	9.785	1606336	9.786	95	60 - 140	-0.0010	+/-0.50	
Chlorobenzene-d5 (2)	335289	14.138	352019	14.145	95	60 - 140	-0.0070	+/-0.50	
Rm. 145 (24I0725-05)									
Lab File ID: G24A254014.D					Analyzed: 09/10/24 19:43				
Bromochloromethane (1)	606061	8.018	582539	8.018	104	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1611415	9.786	1602419	9.792	101	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1480086	14.145	1505777	14.145	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1611894	9.786	1606336	9.786	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	342841	14.139	352019	14.145	97	60 - 140	-0.0060	+/-0.50	
Rm. 152 (24I0725-06)									
Lab File ID: G24A254015.D					Analyzed: 09/10/24 20:40				
Bromochloromethane (1)	584231	8.018	582539	8.018	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1506659	9.786	1602419	9.792	94	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1395044	14.139	1505777	14.145	93	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1506756	9.786	1606336	9.786	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	333572	14.139	352019	14.145	95	60 - 140	-0.0060	+/-0.50	
Rm. 118 (24I0725-07)									
Lab File ID: G24A254016.D					Analyzed: 09/10/24 21:38				
Bromochloromethane (1)	599957	8.018	582539	8.018	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1614790	9.786	1602419	9.792	101	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1471760	14.138	1505777	14.145	98	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (2)	1615476	9.786	1606336	9.786	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	347389	14.138	352019	14.145	99	60 - 140	-0.0070	+/-0.50	

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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
Rm. 110 (24I0725-08) Lab File ID: G24A254017.D Analyzed: 09/10/24 22:33									
Bromochloromethane (1)	613855	8.018	582539	8.018	105	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1703748	9.786	1602419	9.792	106	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1536692	14.145	1505777	14.145	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1704290	9.786	1606336	9.786	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	355056	14.139	352019	14.145	101	60 - 140	-0.0060	+/-0.50	
Rm. 116 (24I0725-09) Lab File ID: G24A254018.D Analyzed: 09/10/24 23:29									
Bromochloromethane (1)	613934	8.018	582539	8.018	105	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1662918	9.786	1602419	9.792	104	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1503768	14.145	1505777	14.145	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1663756	9.786	1606336	9.786	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	345114	14.139	352019	14.145	98	60 - 140	-0.0060	+/-0.50	
Outdoor Ambient (24I0725-10) Lab File ID: G24A254020.D Analyzed: 09/11/24 01:08									
Bromochloromethane (1)	599108	8.018	582539	8.018	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1586122	9.786	1602419	9.792	99	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1484164	14.139	1505777	14.145	99	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1586658	9.786	1606336	9.786	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	351606	14.139	352019	14.145	100	60 - 140	-0.0060	+/-0.50	
MP-1 (24I0725-11) Lab File ID: G24A254021.D Analyzed: 09/11/24 02:07									
Bromochloromethane (1)	554671	8.018	582539	8.018	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1492703	9.786	1602419	9.792	93	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1379071	14.138	1505777	14.145	92	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (2)	1492703	9.786	1606336	9.786	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	329993	14.138	352019	14.145	94	60 - 140	-0.0070	+/-0.50	
MP-3 (24I0725-12) Lab File ID: G24A254022.D Analyzed: 09/11/24 03:07									
Bromochloromethane (1)	597444	8.011	582539	8.018	103	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	1609239	9.786	1602419	9.792	100	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1444029	14.138	1505777	14.145	96	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (2)	1611015	9.786	1606336	9.786	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	331855	14.138	352019	14.145	94	60 - 140	-0.0070	+/-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
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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 (S110749-CCV1)									
Lab File ID: G24A255003.D					Analyzed: 09/11/24 18:35				
Bromochloromethane (1)	519533	8.018				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	1082653	9.786				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	969168	14.144				60 - 140		+/-0.50	
1,4-Difluorobenzene (2)	1138794	9.786				60 - 140		+/-0.50	
Chlorobenzene-d5 (2)	279179	14.145				60 - 140		+/-0.50	
LCS (B386589-BS1)									
Lab File ID: G24A255004.D					Analyzed: 09/11/24 19:15				
Bromochloromethane (1)	525067	8.018	519533	8.018	101	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1143791	9.786	1082653	9.786	106	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1032611	14.145	969168	14.144	107	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (2)	1058577	9.786	1138794	9.786	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	273476	14.144	279179	14.145	98	60 - 140	-0.0010	+/-0.50	
Blank (B386589-BLK1)									
Lab File ID: G24A255011.D					Analyzed: 09/12/24 00:18				
Bromochloromethane (1)	460048	8.024	519533	8.018	89	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	981150	9.786	1082653	9.786	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	890691	14.145	969168	14.144	92	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (2)	981150	9.786	1138794	9.786	86	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	245036	14.145	279179	14.145	88	60 - 140	0.0000	+/-0.50	
MP-4 (2410725-13)									
Lab File ID: G24A255013.D					Analyzed: 09/12/24 01:58				
Bromochloromethane (1)	466603	8.018	519533	8.018	90	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	975162	9.786	1082653	9.786	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	874911	14.144	969168	14.144	90	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	975162	9.786	1138794	9.786	86	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	237267	14.138	279179	14.145	85	60 - 140	-0.0070	+/-0.50	
MP-6 (2410725-14)									
Lab File ID: G24A255014.D					Analyzed: 09/12/24 02:58				
Bromochloromethane (1)	519432	8.018	519533	8.018	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1129525	9.786	1082653	9.786	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	957315	14.139	969168	14.144	99	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (2)	1129931	9.786	1138794	9.786	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	251867	14.139	279179	14.145	90	60 - 140	-0.0060	+/-0.50	
IMP-1 (2410725-15)									
Lab File ID: G24A255015.D					Analyzed: 09/12/24 03:58				
Bromochloromethane (1)	541897	8.018	519533	8.018	104	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1175521	9.786	1082653	9.786	109	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1021753	14.139	969168	14.144	105	60 - 140	-0.0050	+/-0.50	
1,4-Difluorobenzene (2)	1175918	9.786	1138794	9.786	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	268028	14.139	279179	14.145	96	60 - 140	-0.0060	+/-0.50	

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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
IMP-2 (24I0725-16) Lab File ID: G24A255016.D Analyzed: 09/12/24 04:57									
Bromochloromethane (1)	568467	8.018	519533	8.018	109	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1279812	9.786	1082653	9.786	118	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1109853	14.138	969168	14.144	115	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1280941	9.786	1138794	9.786	112	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	293635	14.138	279179	14.145	105	60 - 140	-0.0070	+/-0.50	
Rooftop Fan 1 (24I0725-17) Lab File ID: G24A255017.D Analyzed: 09/12/24 05:57									
Bromochloromethane (1)	629978	8.018	519533	8.018	121	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1394554	9.786	1082653	9.786	129	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	1228851	14.144	969168	14.144	127	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1394766	9.786	1138794	9.786	122	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	320514	14.138	279179	14.145	115	60 - 140	-0.0070	+/-0.50	
Rooftop Fan 2 (24I0725-19) Lab File ID: G24A255019.D Analyzed: 09/12/24 07:53									
Bromochloromethane (1)	514017	8.018	519533	8.018	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1090949	9.786	1082653	9.786	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	989639	14.145	969168	14.144	102	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (2)	1091268	9.786	1138794	9.786	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	271224	14.139	279179	14.145	97	60 - 140	-0.0060	+/-0.50	
Duplicate (B386589-DUP1) Lab File ID: G24A255020.D Analyzed: 09/12/24 08:41									
Bromochloromethane (1)	580240	8.024	519533	8.018	112	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1294012	9.792	1082653	9.786	120	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	1109516	14.145	969168	14.144	114	60 - 140	0.0010	+/-0.50	
1,4-Difluorobenzene (2)	1294012	9.792	1138794	9.786	114	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	291888	14.145	279179	14.145	105	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 (S110784-CCV1) Lab File ID: G24A262003.D Analyzed: 09/18/24 11:11									
Bromochloromethane (1)	393367	8.024				60 - 140		+/-0.50	
1,4-Difluorobenzene (1)	1016341	9.792				60 - 140		+/-0.50	
Chlorobenzene-d5 (1)	938921	14.145				60 - 140		+/-0.50	
1,4-Difluorobenzene (2)	991933	9.786				60 - 140		+/-0.50	
Chlorobenzene-d5 (2)	231117	14.145				60 - 140		+/-0.50	

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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
LCS (B386634-BS1) Lab File ID: G24A262004.D Analyzed: 09/18/24 11:51									
Bromochloromethane (1)	386087	8.018	393367	8.024	98	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1001347	9.792	1016341	9.792	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	927287	14.145	938921	14.145	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	990997	9.786	991933	9.786	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	223954	14.145	231117	14.145	97	60 - 140	0.0000	+/-0.50	
Blank (B386634-BLK1) Lab File ID: G24A262009.D Analyzed: 09/18/24 15:30									
Bromochloromethane (1)	374100	8.024	393367	8.024	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	929569	9.792	1016341	9.792	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	873692	14.144	938921	14.145	93	60 - 140	-0.0010	+/-0.50	
1,4-Difluorobenzene (2)	929569	9.792	991933	9.786	94	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	224628	14.144	231117	14.145	97	60 - 140	-0.0010	+/-0.50	
Rooftop Fan 3 (24I0725-18) Lab File ID: G24A262010.D Analyzed: 09/18/24 16:24									
Bromochloromethane (1)	387287	8.018	393367	8.024	98	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	954634	9.786	1016341	9.792	94	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	894681	14.145	938921	14.145	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	954634	9.786	991933	9.786	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	226175	14.145	231117	14.145	98	60 - 140	0.0000	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S110748-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.000	4.28	0.9216919	0.7894325		-14.3	30
Acrylonitrile	A	2.880	2.08	0.2757299	0.198886		-27.9	30
Benzene	A	5.000	4.66	0.7757931	0.7225196		-6.9	30
Bromodichloromethane	A	5.000	4.52	0.5972854	0.5402961		-9.5	30
Bromoform	A	5.000	4.29	0.5431069	0.4663299		-14.1	30
2-Butanone (MEK)	A	5.000	4.25	1.307545	1.110457		-15.1	30
n-Butylbenzene	A	1.140	0.970	8.622349	7.355365		-14.7	30
sec-Butylbenzene	A	1.140	0.970	10.31631	8.786049		-14.8	30
Carbon Tetrachloride	A	5.000	4.06	0.5009138	0.4070027		-18.7	30
Chlorobenzene	A	5.000	4.45	0.7877083	0.7010823		-11.0	30
Chloroethane	A	5.000	3.93	0.3086236	0.2426426		-21.4	30
Chloroform	A	5.000	4.91	1.440028	1.414852		-1.7	30
Chloromethane	A	5.000	4.37	0.6785563	0.5925481		-12.7	30
Dibromochloromethane	A	5.000	4.48	0.5948494	0.5325538		-10.5	30
1,2-Dibromoethane (EDB)	A	5.000	4.35	0.5490928	0.477336		-13.1	30
1,2-Dichlorobenzene	A	5.000	4.57	0.6148508	0.5625428		-8.5	30
1,3-Dichlorobenzene	A	5.000	4.88	0.6611977	0.6454948		-2.4	30
1,4-Dichlorobenzene	A	5.000	4.75	0.659745	0.6270814		-5.0	30
Dichlorodifluoromethane (Freon 12)	A	5.000	4.85	1.540128	1.493352		-3.0	30
1,1-Dichloroethane	A	5.000	4.61	1.265892	1.166348		-7.9	30
1,2-Dichloroethane	A	5.000	5.12	0.9188488	0.9415418		2.5	30
1,1-Dichloroethylene	A	5.000	4.84	1.038377	1.004922		-3.2	30
cis-1,2-Dichloroethylene	A	5.000	4.88	0.8839679	0.8631099		-2.4	30
trans-1,2-Dichloroethylene	A	5.000	4.82	0.9232199	0.8896833		-3.6	30
1,2-Dichloropropane	A	5.000	3.92	0.3333104	0.2615935		-21.5	30
1,3-Dichloropropane	A	1.350	1.12	3.296576	2.73423		-17.1	30
cis-1,3-Dichloropropene	A	5.000	4.79	0.4594519	0.4400138		-4.2	30
trans-1,3-Dichloropropene	A	5.000	4.79	0.3477882	0.3332382		-4.2	30
Ethylbenzene	A	5.000	4.81	1.210014	1.164656		-3.7	30
Isopropylbenzene (Cumene)	A	1.270	1.14	8.901571	8.016711		-9.9	30
p-Isopropyltoluene (p-Cymene)	A	1.140	1.10	8.339672	8.064357		-3.3	30
Methyl tert-Butyl Ether (MTBE)	A	5.000	5.02	1.627031	1.632685		0.3	30
Methylene Chloride	A	5.000	4.23	0.8346046	0.7063781		-15.4	30
4-Methyl-2-pentanone (MIBK)	A	5.000	4.76	0.576217	0.5488991		-4.7	30
Styrene	A	5.000	4.98	0.6589064	0.6559218		-0.5	30
1,1,1,2-Tetrachloroethane	A	0.9100	0.890	2.092288	2.035754		-2.7	30
1,1,2,2-Tetrachloroethane	A	5.000	4.03	0.8156315	0.6573776		-19.4	30
Tetrachloroethylene	A	5.000	5.14	0.4489411	0.4617215		2.8	30

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CONTINUING CALIBRATION CHECK
EPA TO-15
S110748-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	5.000	4.72	0.94549	0.8928993		-5.6	30
1,1,1-Trichloroethane	A	5.000	4.95	0.5145077	0.5088607		-1.1	30
1,1,2-Trichloroethane	A	5.000	4.32	0.3592603	0.3102292		-13.6	30
Trichloroethylene	A	5.000	4.70	0.3396411	0.319449		-5.9	30
Trichlorofluoromethane (Freon 11)	A	5.000	5.18	1.463792	1.517064		3.6	30
1,2,4-Trimethylbenzene	A	5.000	4.96	0.9566545	0.9497544		-0.7	30
1,3,5-Trimethylbenzene	A	5.000	4.98	0.9998111	0.9953729		-0.4	30
Vinyl Chloride	A	5.000	4.29	0.6934505	0.5946987		-14.2	30
m&p-Xylene	A	10.00	10.1	0.9256934	0.937036		1.2	30
o-Xylene	A	5.000	4.81	0.9487578	0.9129968		-3.8	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S110749-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.000	4.48	0.9216919	0.8253505		-10.5	30
Acrylonitrile	A	2.880	3.20	0.2757299	0.3060426		11.0	30
Benzene	A	5.000	5.13	0.7757931	0.7962352		2.6	30
Bromodichloromethane	A	5.000	4.79	0.5972854	0.5718397		-4.3	30
Bromoform	A	5.000	4.25	0.5431069	0.4612451		-15.1	30
2-Butanone (MEK)	A	5.000	4.36	1.307545	1.140942		-12.7	30
n-Butylbenzene	A	1.140	1.04	8.622349	7.848602		-9.0	30
sec-Butylbenzene	A	1.140	0.970	10.31631	8.788979		-14.8	30
Carbon Tetrachloride	A	5.000	3.83	0.5009138	0.3839782		-23.3	30
Chlorobenzene	A	5.000	4.65	0.7877083	0.7323015		-7.0	30
Chloroethane	A	5.000	4.08	0.3086236	0.252014		-18.3	30
Chloroform	A	5.000	4.00	1.440028	1.152724		-20.0	30
Chloromethane	A	5.000	4.35	0.6785563	0.5901361		-13.0	30
Dibromochloromethane	A	5.000	4.52	0.5948494	0.5378221		-9.6	30
1,2-Dibromoethane (EDB)	A	5.000	4.66	0.5490928	0.5114738		-6.9	30
1,2-Dichlorobenzene	A	5.000	4.63	0.6148508	0.5687501		-7.5	30
1,3-Dichlorobenzene	A	5.000	4.88	0.6611977	0.6459115		-2.3	30
1,4-Dichlorobenzene	A	5.000	4.82	0.659745	0.6365906		-3.5	30
Dichlorodifluoromethane (Freon 12)	A	5.000	3.19	1.540128	0.9813275		-36.3	30 *
1,1-Dichloroethane	A	5.000	4.20	1.265892	1.062123		-16.1	30
1,2-Dichloroethane	A	5.000	4.32	0.9188488	0.7936635		-13.6	30
1,1-Dichloroethylene	A	5.000	4.41	1.038377	0.9148308		-11.9	30
cis-1,2-Dichloroethylene	A	5.000	4.36	0.8839679	0.7709508		-12.8	30
trans-1,2-Dichloroethylene	A	5.000	4.38	0.9232199	0.8084029		-12.4	30
1,2-Dichloropropane	A	5.000	4.79	0.3333104	0.3190104		-4.3	30
1,3-Dichloropropane	A	1.350	1.21	3.296576	2.950004		-10.5	30
cis-1,3-Dichloropropene	A	5.000	5.23	0.4594519	0.4808514		4.7	30
trans-1,3-Dichloropropene	A	5.000	5.17	0.3477882	0.3599218		3.5	30
Ethylbenzene	A	5.000	5.26	1.210014	1.273604		5.3	30
Isopropylbenzene (Cumene)	A	1.270	1.10	8.901571	7.688483		-13.6	30
p-Isopropyltoluene (p-Cymene)	A	1.140	1.01	8.339672	7.380161		-11.5	30
Methyl tert-Butyl Ether (MTBE)	A	5.000	4.30	1.627031	1.398878		-14.0	30
Methylene Chloride	A	5.000	4.22	0.8346046	0.7037828		-15.7	30
4-Methyl-2-pentanone (MIBK)	A	5.000	6.20	0.576217	0.7141465		23.9	30
Styrene	A	5.000	5.42	0.6589064	0.7148366		8.5	30
1,1,1,2-Tetrachloroethane	A	0.9100	0.810	2.092288	1.858857		-11.2	30
1,1,2,2-Tetrachloroethane	A	5.000	4.65	0.8156315	0.7582537		-7.0	30
Tetrachloroethylene	A	5.000	5.12	0.4489411	0.4594456		2.3	30

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CONTINUING CALIBRATION CHECK
EPA TO-15
S110749-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	5.000	5.21	0.94549	0.9843297		4.1	30
1,1,1-Trichloroethane	A	5.000	4.95	0.5145077	0.5098291		-0.9	30
1,1,2-Trichloroethane	A	5.000	4.79	0.3592603	0.3440114		-4.2	30
Trichloroethylene	A	5.000	4.88	0.3396411	0.3313594		-2.4	30
Trichlorofluoromethane (Freon 11)	A	5.000	4.42	1.463792	1.294036		-11.6	30
1,2,4-Trimethylbenzene	A	5.000	5.26	0.9566545	1.006293		5.2	30
1,3,5-Trimethylbenzene	A	5.000	5.12	0.9998111	1.022969		2.3	30
Vinyl Chloride	A	5.000	4.20	0.6934505	0.5823476		-16.0	30
m&p-Xylene	A	10.00	11.1	0.9256934	1.027677		11.0	30
o-Xylene	A	5.000	5.28	0.9487578	1.001595		5.6	30

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

* Values outside of QC limits

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CONTINUING CALIBRATION CHECK

EPA TO-15

S110784-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.000	4.64	0.9216919	0.8544936		-7.3	30
Acrylonitrile	A	2.880	2.44	0.2757299	0.2335451		-15.3	30
Benzene	A	5.000	4.73	0.7757931	0.7334893		-5.5	30
Bromodichloromethane	A	5.000	4.29	0.5972854	0.5128058		-14.1	30
Bromoform	A	5.000	3.56	0.5431069	0.3866702		-28.8	30
2-Butanone (MEK)	A	5.000	4.57	1.307545	1.194996		-8.6	30
n-Butylbenzene	A	1.140	1.02	8.622349	7.736736		-10.3	30
sec-Butylbenzene	A	1.140	1.02	10.31631	9.254035		-10.3	30
Carbon Tetrachloride	A	5.000	2.78	0.5009138	0.2780421		-44.5	30 *
Chlorobenzene	A	5.000	4.42	0.7877083	0.6965493		-11.6	30
Chloroethane	A	5.000	4.27	0.3086236	0.2636113		-14.6	30
Chloroform	A	5.000	4.58	1.440028	1.319777		-8.4	30
Chloromethane	A	5.000	4.74	0.6785563	0.6433971		-5.2	30
Dibromochloromethane	A	5.000	4.02	0.5948494	0.478718		-19.5	30
1,2-Dibromoethane (EDB)	A	5.000	4.37	0.5490928	0.4801256		-12.6	30
1,2-Dichlorobenzene	A	5.000	4.33	0.6148508	0.5327596		-13.4	30
1,3-Dichlorobenzene	A	5.000	4.65	0.6611977	0.6151708		-7.0	30
1,4-Dichlorobenzene	A	5.000	4.53	0.659745	0.5981828		-9.3	30
Dichlorodifluoromethane (Freon 12)	A	5.000	3.46	1.540128	1.066684		-30.7	30 *
1,1-Dichloroethane	A	5.000	4.51	1.265892	1.142034		-9.8	30
1,2-Dichloroethane	A	5.000	4.76	0.9188488	0.8751481		-4.8	30
1,1-Dichloroethylene	A	5.000	4.80	1.038377	0.9978793		-3.9	30
cis-1,2-Dichloroethylene	A	5.000	4.80	0.8839679	0.8489985		-4.0	30
trans-1,2-Dichloroethylene	A	5.000	4.82	0.9232199	0.8892012		-3.7	30
1,2-Dichloropropane	A	5.000	4.16	0.3333104	0.2775289		-16.7	30
1,3-Dichloropropane	A	1.350	1.11	3.296576	2.709085		-17.8	30
cis-1,3-Dichloropropene	A	5.000	4.92	0.4594519	0.4522608		-1.6	30
trans-1,3-Dichloropropene	A	5.000	4.84	0.3477882	0.3365705		-3.2	30
Ethylbenzene	A	5.000	5.06	1.210014	1.225599		1.3	30
Isopropylbenzene (Cumene)	A	1.270	1.09	8.901571	7.656592		-14.0	30
p-Isopropyltoluene (p-Cymene)	A	1.140	1.06	8.339672	7.723346		-7.4	30
Methyl tert-Butyl Ether (MTBE)	A	5.000	4.95	1.627031	1.611588		-0.9	30
Methylene Chloride	A	5.000	4.31	0.8346046	0.7191046		-13.8	30
4-Methyl-2-pentanone (MIBK)	A	5.000	5.29	0.576217	0.6091011		5.7	30
Styrene	A	5.000	5.20	0.6589064	0.6853637		4.0	30
1,1,1,2-Tetrachloroethane	A	0.9100	0.730	2.092288	1.675418		-19.9	30
1,1,2,2-Tetrachloroethane	A	5.000	3.94	0.8156315	0.6432251		-21.1	30
Tetrachloroethylene	A	5.000	5.06	0.4489411	0.4543462		1.2	30

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CONTINUING CALIBRATION CHECK
EPA TO-15
S110784-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	5.000	4.96	0.94549	0.9373722		-0.9	30
1,1,1-Trichloroethane	A	5.000	4.74	0.5145077	0.4876285		-5.2	30
1,1,2-Trichloroethane	A	5.000	4.32	0.3592603	0.3100836		-13.7	30
Trichloroethylene	A	5.000	4.68	0.3396411	0.3176414		-6.5	30
Trichlorofluoromethane (Freon 11)	A	5.000	5.03	1.463792	1.473917		0.7	30
1,2,4-Trimethylbenzene	A	5.000	4.98	0.9566545	0.9532355		-0.4	30
1,3,5-Trimethylbenzene	A	5.000	4.90	0.9998111	0.9806422		-1.9	30
Vinyl Chloride	A	5.000	4.67	0.6934505	0.6472205		-6.7	30
m&p-Xylene	A	10.00	10.4	0.9256934	0.9600297		3.7	30
o-Xylene	A	5.000	4.86	0.9487578	0.9225211		-2.8	30

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

* Values outside of QC limits

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	NY,ME,NH
Acrylonitrile	NJ,NY,ME,NH
Benzene	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
2-Butanone (MEK)	FL,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
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
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NJ,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
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
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
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

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

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

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

24I 0725

Pace® Location Requested (City/State):										Air CHAIN-OF-CUSTODY Analytical Request Document									
Company Name: FA Engineering Science, Tech.										Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields									
Street Address: 301 Metro Center Blvd. Ste 102										Contact/Report To: Travis Chudej									
City, State Zip: Warwick, RI 02886										Phone #: 214.920.3099									
Customer Project #: 15066.12										E-Mail: tchudej@faeest.com									
Project Name: Alvarez High School										Cc E-Mail: jalvarez@eest.com									
Site Collection Info/Facility ID (as applicable):										Invoice to: ~~Marianne Dine~~ NE Arch paybe									
Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET										Invoice #: 4615									
Data Deliverables:										Purchase Order # (if applicable): 4615									
[X] Level II [] Level III [] Level IV										Quote #: 00163780									
[] EQUIS [] Other										State origin of sample(s): Rhode Island									
Regulatory Program (CAA, RCRA, etc.) as applicable:										Permit # as applicable:									
[] Same Day [] 1 Day [] 2 Day [] 3 Day Other										Units for Reporting: (ug/m) PPBV mg/m³ PPMV									
Date Results Requested:										Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)									
Customer Sample ID	Matrix*	Summa Canister ID	Flow Controller ID	Begin Collection Date	End Collection Date	Start Pressure Vacuum (in Hg)	End Pressure Vacuum (in Hg)	Duration (minutes)	Flow Rate m³/min or L/min	Total Volume Sampled m³ or L	Sample Comment								
Gym	I	2223	4712	0949 9:42	1027 10:27	-29	0	38		6	-1.3								
Cafeteria	I	3668	4733	0955	1028	-29	-3	33			-2.9								
Kitchen Storage	I	2201	4697	0957	1053	-30	-5	56			0.0								
Elevator Hallway	I	2013	4713	0932	1005	-30	-4.5	33			-3.2								
Rm. 145	I	2034	4732	1002	1035	-30	-3.5	33			-3.0								
Rm. 152	I	1618	4696	0945	1021	-28	-1.0	36			-1.0								
Rm. 118	I	1334	4714	0938	1015	-30	-1.5	37			-1.2								
Rm. 110	I	2463	4711	0937	1051	-30	-7	74			0.0								
Rm. 116	I	1245	4583	0934	1016	-30	-3.0	40			-0.7								
Outdoor Ambient	A	1943	4785	1233	1307	-30	-5.0	34			-2.8								

24I0725

Pace® Location Requested (City/State):										Air Chain-Of-Custody Analytical Request Document										
Company Name: FA Engineering										Chain-Of-Custody is a LEGAL DOCUMENT - Complete all relevant fields										
Street Address: 301 Metro Center Blvd, Ste. 102										Contact/Report To: Travis Chudej										
City, State Zip: Warwick, RI, 02886										Phone #: 214-926-3099										
Customer Project #: 15066-12										E-Mail: tchudej@faengineering.com										
Project Name: Alvarez High School										CE E-Mail: jalvarez@faengineering.com										
Site Collection Info/Facility ID (as applicable):										Invoice to: Northeast accounts payable										
Time Zone Collected: [] AK [] PT [] MT [] CT [X] ET										Invoice E-Mail: NEAccountsPayable@faengineering.com										
Data Deliverables:										Purchase Order # (if applicable): 4615										
[X] Level II [] Level III [] Level IV										Quote #: 00103780										
[] EQUIS [] Other										State origin of sample(s): Rhode Island										
Regulatory Program (CAA, RCRA, etc.) as applicable:										Permit # as applicable:										
Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day Other										Units for Reporting: (mg/m³) PSV mg/m³ PMV										
Date Results Requested:										Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)										
11	MP-1	0	1027	4657	1248	9-4-24	1323	35	-2.5	-30	6	-2.6								
12	MP-3	0	1621	4626	1242	1321	39	-5	-30	"	-1.8									
13	MP-4	0	1878	4600	1252	1325	33	-2.5	-30	"	-4.4									
14	MP-6	0	2443	4599	1239	1310	31	-4.5	-29	"	-4.5									
15	IMP-1	0	1841	4700	0953	1027	34	-1.0	-30	"	-2.6									
16	IMP-2	0	1327	4671	0930	1003	33	-4.0	-30	"	-2.6									
17	Rooftop fan 1	0	1136	4266	1133	1208	35	-4.0	-30	"	-4.4									
18	Rooftop fan 3	0	1873	4739	1115	1155	40	-3.5	-30	"	-1.6									
19	Rooftop fan 3	0	1449	4725	1237	1307	30	-5.0	-30	"										
	Rooftop fan 2	0	1869	4738	1127	1205	38	-3.0	-30	"	-1.4									
Additional Instructions from Pace®: Fans + IMPS are sublab																				
Relinquished by Company: (Signature) Date/Time: 11/30/24 9-5-24										Relinquished by Company: (Signature) Date/Time: 11/30/24 9-5-24										
Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										
Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										
Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										Relinquished by Company: (Signature) Date/Time: 11/30/24 16:30										

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

Log In Back-Sheet

Client EA Engineering
 Project Alvarez High School
 MCP/RCP Required —
 Deliverable Package Requirement —
 Location Rhode Island
 PWSID# (When Applicable) —
 Arrival Method Carrier
 Received By / Date / Time KMC 9/5/24 16:30
 Back-Sheet By / Date / Time KMC 9/16/24 09:24
 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	☒ (119)	☐
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	19	6L	19	30min	Nut/Ferrule		IC Train	19
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	2034	10	1943	15	1841	Regs #'s	5	4732	10	4725	15	4700
1	2223	6	1618	11	1027	16	1327	1	4712	6	4696	11	4671
2	P3668	7	1334	12	1621	17	1186	2	4733	7	4714	12	4626
3	2201	8	2463	13	1878	18	1873	3	4697	8	4711	13	4600
4	2013	9	1245	14	2443	19	1869	4	4713	9	4583	14	4599
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

Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2460271-01	GYMNASIUM	AIR	PROVIDENCE, RI	10/15/24 10:29	10/16/24
L2460271-02	CAFETERIA	AIR	PROVIDENCE, RI	10/15/24 10:28	10/16/24
L2460271-03	KITCHEN STORAGE	AIR	PROVIDENCE, RI	10/15/24 10:27	10/16/24
L2460271-04	ELEVATOR HALLWAY	AIR	PROVIDENCE, RI	10/15/24 10:06	10/16/24
L2460271-05	ROOM 145	AIR	PROVIDENCE, RI	10/15/24 10:07	10/16/24
L2460271-06	ROOM 152	AIR	PROVIDENCE, RI	10/15/24 10:08	10/16/24
L2460271-07	ROOM 118	AIR	PROVIDENCE, RI	10/15/24 10:02	10/16/24
L2460271-08	ROOM 110	AIR	PROVIDENCE, RI	10/15/24 10:04	10/16/24
L2460271-09	ROOM 116	AIR	PROVIDENCE, RI	10/15/24 10:03	10/16/24
L2460271-10	OUTDOOR AMBIENT	AIR	PROVIDENCE, RI	10/15/24 11:58	10/16/24
L2460271-11	IMP-1	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 10:30	10/16/24
L2460271-12	IMP-3	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 10:00	10/16/24
L2460271-13	MP-2	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 11:44	10/16/24
L2460271-14	MP-5	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 11:52	10/16/24
L2460271-15	MP-7	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 11:57	10/16/24
L2460271-16	MP-8	SOIL_VAPOR	PROVIDENCE, RI	10/15/24 11:59	10/16/24

Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on October 14, 2024. The canister certification data is provided as an addendum.

L2460271-03, -07, and -09: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2460271-03D, -07D, and -09D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

WG1986519-3: The quality control sample [CCAL], associated with WG1986519-3, did not meet the acceptance criteria for the [SIM] analysis. The associated compound(s) for those samples were reported from the [full scan] analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 10/23/24

AIR

Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:29
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 17:37

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	176	5.00	--	332	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:29
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 17:37
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.487	0.200	--	2.41	0.989	--		1
Chloromethane	0.432	0.200	--	0.892	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.92	1.00	--	6.94	2.38	--		1
Trichlorofluoromethane	0.212	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	0.551	0.500	--	1.35	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.066	0.050	--	0.506	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:29
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.091	0.020	--	0.444	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.185	0.100	--	0.697	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:29
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	0.060	0.040	--	0.261	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.083	0.020	--	0.361	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.023	0.020	--	0.10	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.022	0.020	--	0.108	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:28
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 18:08

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	142	5.00	--	268	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	98		60-140

Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:28
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 18:08
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.461	0.200	--	2.28	0.989	--		1
Chloromethane	0.470	0.200	--	0.971	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.05	1.00	--	12.0	2.38	--		1
Trichlorofluoromethane	0.216	0.050	--	1.21	0.281	--		1
iso-Propyl Alcohol	3.63	0.500	--	8.92	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.067	0.050	--	0.514	0.383	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:28
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	0.675	0.500	--	2.43	1.80	--		1
Chloroform	0.200	0.020	--	0.977	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.220	0.100	--	0.829	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.021	0.020	--	0.142	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:28
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	0.059	0.040	--	0.256	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.084	0.020	--	0.365	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.025	0.020	--	0.109	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.021	0.020	--	0.103	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:27
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 18:40

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	287	5.00	--	541	9.42	--	E	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:27
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 18:40
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	21.2	0.500	--	36.5	0.861	--		1
Dichlorodifluoromethane	0.456	0.200	--	2.25	0.989	--		1
Chloromethane	0.652	0.200	--	1.35	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	0.021	0.020	--	0.054	0.051	--		1
1,3-Butadiene	0.039	0.020	--	0.086	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.05	1.00	--	9.62	2.38	--		1
Trichlorofluoromethane	0.220	0.050	--	1.24	0.281	--		1
iso-Propyl Alcohol	1.55	0.500	--	3.81	1.23	--		1
1,1-Dichloroethene	0.041	0.020	--	0.163	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,2-Dichloroethene (total)	0.111	0.020	--	0.440	0.079	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:27
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	0.111	0.020	--	0.440	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.187	0.020	--	0.913	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.119	0.100	--	0.380	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Cyclohexane	0.254	0.200	--	0.874	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.298	0.200	--	1.22	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.248	0.100	--	0.935	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:27
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.020	0.020	--	0.087	0.087	--		1
p/m-Xylene	0.060	0.040	--	0.261	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.085	0.020	--	0.369	0.087	--		1
Styrene	0.022	0.020	--	0.094	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.025	0.020	--	0.109	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-03 D
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:27
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/20/24 17:29

Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	317	10.0	--	597	18.8	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140

Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:06
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 19:11

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	165	5.00	--	311	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:06
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 19:11
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.491	0.200	--	2.43	0.989	--		1
Chloromethane	0.450	0.200	--	0.929	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.62	1.00	--	8.60	2.38	--		1
Trichlorofluoromethane	0.211	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	55.0	0.500	--	135	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.066	0.050	--	0.506	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:06
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.101	0.020	--	0.493	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.095	0.020	--	0.598	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.195	0.100	--	0.735	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:06
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	0.057	0.040	--	0.248	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.079	0.020	--	0.343	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.022	0.020	--	0.096	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.021	0.020	--	0.103	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:07
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 20:14

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	10.9	5.00	--	20.5	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	98		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:07
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 20:14
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.489	0.200	--	2.42	0.989	--		1
Chloromethane	0.425	0.200	--	0.878	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.22	1.00	--	7.65	2.38	--		1
Trichlorofluoromethane	0.212	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	1.07	0.500	--	2.63	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.067	0.050	--	0.514	0.383	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:07
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.029	0.020	--	0.142	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.189	0.100	--	0.712	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-05
 Client ID: ROOM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:07
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	0.056	0.040	--	0.243	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.078	0.020	--	0.339	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.022	0.020	--	0.096	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	98		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:08
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 10/19/24 20:46
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	176	5.00	--	332	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:08
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 20:46
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.486	0.200	--	2.40	0.989	--		1
Chloromethane	0.557	0.200	--	1.15	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.4	1.00	--	24.7	2.38	--		1
Trichlorofluoromethane	0.212	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	14.0	0.500	--	34.4	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.067	0.050	--	0.514	0.383	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:08
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.042	0.020	--	0.205	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.099	0.020	--	0.623	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	5.30	0.200	--	21.7	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.241	0.100	--	0.908	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-06
 Client ID: ROOM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:08
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.021	0.020	--	0.091	0.087	--		1
p/m-Xylene	0.067	0.040	--	0.291	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.095	0.020	--	0.413	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.028	0.020	--	0.122	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.026	0.020	--	0.128	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:02
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 10/19/24 21:17
 Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	476	5.00	--	897	9.42	--	E	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	96		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:02
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 21:17
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.502	0.200	--	2.48	0.989	--		1
Chloromethane	0.515	0.200	--	1.06	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	6.52	1.00	--	15.5	2.38	--		1
Trichlorofluoromethane	0.216	0.050	--	1.21	0.281	--		1
iso-Propyl Alcohol	22.7	0.500	--	55.8	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:02
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.047	0.020	--	0.230	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.096	0.020	--	0.604	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.226	0.100	--	0.852	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-07
 Client ID: ROOM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:02
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	0.061	0.040	--	0.265	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.085	0.020	--	0.369	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.024	0.020	--	0.104	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.022	0.020	--	0.108	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.351	0.020	--	2.11	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.102	0.050	--	0.535	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	96		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-07 D

Client ID: ROOM 118

Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:02

Date Received: 10/16/24

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/20/24 17:57

Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	699	50.0	--	1320	94.2	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	94		60-140

Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-08
 Client ID: ROOM 110
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:04
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 21:49

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	121	5.00	--	228	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	98		60-140

Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-08
 Client ID: ROOM 110
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:04
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 21:49
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.500	0.200	--	2.47	0.989	--		1
Chloromethane	0.570	0.200	--	1.18	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.62	1.00	--	20.5	2.38	--		1
Trichlorofluoromethane	0.216	0.050	--	1.21	0.281	--		1
iso-Propyl Alcohol	9.00	0.500	--	22.1	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-08
 Client ID: ROOM 110
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:04
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.054	0.020	--	0.264	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.100	0.020	--	0.629	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.230	0.100	--	0.867	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-08

Date Collected: 10/15/24 10:04

Client ID: ROOM 110

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.020	0.020	--	0.087	0.087	--		1
p/m-Xylene	0.062	0.040	--	0.269	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.087	0.020	--	0.378	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.025	0.020	--	0.109	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.023	0.020	--	0.113	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.033	0.020	--	0.198	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-09
 Client ID: ROOM 116
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:03
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 22:20

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	978	5.00	--	1840	9.42	--	E	1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-09
 Client ID: ROOM 116
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:03
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 22:20
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.499	0.200	--	2.47	0.989	--		1
Chloromethane	0.560	0.200	--	1.16	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	9.23	1.00	--	21.9	2.38	--		1
Trichlorofluoromethane	0.212	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	76.5	0.500	--	188	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-09

Date Collected: 10/15/24 10:03

Client ID: ROOM 116

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.054	0.020	--	0.264	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	0.020	0.020	--	0.081	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.098	0.020	--	0.616	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.238	0.100	--	0.897	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-09
 Client ID: ROOM 116
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:03
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.020	0.020	--	0.087	0.087	--		1
p/m-Xylene	0.063	0.040	--	0.274	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.088	0.020	--	0.382	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.025	0.020	--	0.109	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.023	0.020	--	0.113	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	0.474	0.020	--	2.85	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-09 D

Client ID: ROOM 116

Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:03

Date Received: 10/16/24

Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/20/24 18:26

Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	1640	50.0	--	3090	94.2	--		10

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	95		60-140

Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-10
 Client ID: OUTDOOR AMBIENT
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:58
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 10/19/24 17:05

Analyst: BJB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethanol	ND	5.00	--	ND	9.42	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140

Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-10
 Client ID: OUTDOOR AMBIENT
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:58
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/19/24 17:05
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.462	0.200	--	2.28	0.989	--		1
Chloromethane	0.431	0.200	--	0.890	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	1.18	1.00	--	2.80	2.38	--		1
Trichlorofluoromethane	0.196	0.050	--	1.10	0.281	--		1
iso-Propyl Alcohol	0.583	0.500	--	1.43	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-10
 Client ID: OUTDOOR AMBIENT
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:58
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.023	0.020	--	0.112	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.099	0.020	--	0.623	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-10
 Client ID: OUTDOOR AMBIENT
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:58
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	ND	0.020	--	ND	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	99		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-11
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:30
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 17:56
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.418	0.200	--	2.07	0.989	--		1
Chloromethane	0.415	0.200	--	0.857	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	13.0	5.00	--	24.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.47	1.00	--	13.0	2.38	--		1
Trichlorofluoromethane	0.203	0.050	--	1.14	0.281	--		1
iso-Propyl Alcohol	1.59	0.500	--	3.91	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.729	0.200	--	2.27	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-11

Date Collected: 10/15/24 10:30

Client ID: IMP-1

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	1.61	0.500	--	4.75	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.064	0.020	--	0.313	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.105	0.100	--	0.335	0.319	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.040	0.020	--	0.215	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.292	0.100	--	1.10	0.377	--		1
2-Hexanone	0.416	0.200	--	1.70	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-11

Date Collected: 10/15/24 10:30

Client ID: IMP-1

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.039	0.020	--	0.264	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.094	0.020	--	0.408	0.087	--		1
p/m-Xylene	0.368	0.040	--	1.60	0.174	--		1
Xylene (Total)	0.516	0.020	--	2.24	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.049	0.020	--	0.209	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.148	0.020	--	0.643	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	0.030	0.020	--	0.147	0.098	--		1
1,2,4-Trimethylbenzene	0.107	0.020	--	0.526	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-12
 Client ID: IMP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:00
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 18:27
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.443	0.200	--	2.19	0.989	--		1
Chloromethane	0.431	0.200	--	0.890	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.026	0.020	--	0.058	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	29.8	5.00	--	56.2	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	4.45	1.00	--	10.6	2.38	--		1
Trichlorofluoromethane	0.217	0.050	--	1.22	0.281	--		1
iso-Propyl Alcohol	3.67	0.500	--	9.02	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.311	0.200	--	0.968	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-12

Date Collected: 10/15/24 10:00

Client ID: IMP-3

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.068	0.020	--	0.332	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.118	0.100	--	0.377	0.319	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.105	0.020	--	0.564	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.294	0.100	--	1.11	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-12
 Client ID: IMP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 10:00
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.032	0.020	--	0.217	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.110	0.020	--	0.478	0.087	--		1
p/m-Xylene	0.444	0.040	--	1.93	0.174	--		1
Xylene (Total)	0.606	0.020	--	2.63	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.043	0.020	--	0.183	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.162	0.020	--	0.704	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	0.028	0.020	--	0.138	0.098	--		1
1,2,4-Trimethylbenzene	0.088	0.020	--	0.433	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	95		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-13
 Client ID: MP-2
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:44
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 18:59
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	0.504	0.500	--	0.867	0.861	--		1
Dichlorodifluoromethane	0.439	0.200	--	2.17	0.989	--		1
Chloromethane	0.584	0.200	--	1.21	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.245	0.050	--	1.38	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.068	0.050	--	0.521	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-13

Date Collected: 10/15/24 11:44

Client ID: MP-2

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	4.59	0.500	--	13.5	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.082	0.020	--	0.400	0.098	--		1
Tetrahydrofuran	4.33	0.500	--	12.8	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.025	0.020	--	0.136	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.213	0.020	--	1.14	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.198	0.100	--	0.746	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-13

Date Collected: 10/15/24 11:44

Client ID: MP-2

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.558	0.020	--	3.78	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.042	0.020	--	0.182	0.087	--		1
p/m-Xylene	0.167	0.040	--	0.725	0.174	--		1
Xylene (Total)	0.229	0.020	--	0.995	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.062	0.020	--	0.269	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.037	0.020	--	0.182	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-14
 Client ID: MP-5
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:52
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 19:31
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.454	0.200	--	2.24	0.989	--		1
Chloromethane	0.654	0.200	--	1.35	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	1.09	0.050	--	6.13	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	2.66	0.200	--	8.28	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-14
 Client ID: MP-5
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:52
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	0.704	0.500	--	2.08	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.041	0.020	--	0.200	0.098	--		1
Tetrahydrofuran	3.61	0.500	--	10.6	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.023	0.020	--	0.125	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	9.09	0.020	--	48.9	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-14
 Client ID: MP-5
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:52
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.279	0.020	--	1.89	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.039	0.020	--	0.169	0.087	--		1
p/m-Xylene	0.158	0.040	--	0.686	0.174	--		1
Xylene (Total)	0.216	0.020	--	0.938	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.058	0.020	--	0.252	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.027	0.020	--	0.133	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-15
 Client ID: MP-7
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:57
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 20:34
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.474	0.200	--	2.34	0.989	--		1
Chloromethane	0.378	0.200	--	0.781	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.299	0.050	--	1.68	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	0.218	0.200	--	0.679	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-15
 Client ID: MP-7
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:57
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.044	0.020	--	0.215	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.083	0.020	--	0.446	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-15

Date Collected: 10/15/24 11:57

Client ID: MP-7

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.027	0.020	--	0.183	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.045	0.020	--	0.195	0.087	--		1
p/m-Xylene	0.175	0.040	--	0.760	0.174	--		1
Xylene (Total)	0.239	0.020	--	1.04	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.064	0.020	--	0.278	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.038	0.020	--	0.187	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	0.022	0.020	--	0.132	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140



Project Name: ALVAREZ HS**Project Number:** 15066.12**Lab Number:** L2460271**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-16
 Client ID: MP-8
 Sample Location: PROVIDENCE, RI

Date Collected: 10/15/24 11:59
 Date Received: 10/16/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 10/22/24 21:05
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--		1
Chloromethane	0.350	0.200	--	0.723	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	0.193	0.050	--	1.08	0.281	--		1
iso-Propyl Alcohol	0.500	0.500	--	1.23	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	0.634	0.500	--	2.20	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.59	0.200	--	4.95	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-16

Date Collected: 10/15/24 11:59

Client ID: MP-8

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.033	0.020	--	0.161	0.098	--		1
Tetrahydrofuran	2.20	0.500	--	6.49	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.091	0.020	--	0.572	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.582	0.100	--	2.19	0.377	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: ALVAREZ HS**Lab Number:** L2460271**Project Number:** 15066.12**Report Date:** 10/23/24**SAMPLE RESULTS**

Lab ID: L2460271-16

Date Collected: 10/15/24 11:59

Client ID: MP-8

Date Received: 10/16/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Tetrachloroethene	0.020	0.020	--	0.136	0.136	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.044	0.020	--	0.191	0.087	--		1
p/m-Xylene	0.173	0.040	--	0.751	0.174	--		1
Xylene (Total)	0.239	0.020	--	1.04	0.087	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.066	0.020	--	0.287	0.087	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	0.042	0.020	--	0.206	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	0.021	0.020	--	0.126	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	100		60-140



Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ALVAREZ HS
Project Number: 15066.12

Lab Number: L2460271
Report Date: 10/23/24

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 2



CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: EA Engineering
Address: 301 Metro Center Blvd
Ste. 102, Warwick RI 02886
Phone: 401-352-5745
Fax:
Email: tchudaj@east.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Alvarez HS
Project Location: Providence RI
Project #: 15660 15066.12
Project Manager: Jonathan Alvarez
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Other Project Specific Requirements/Comments: Please report in ug/m³

Project-Specific Target Compound List: ☐

Date Rec'd in Lab: 10/17/24

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☒ Additional Deliverables:
Excel
Report to: (if different than Project Manager)
j.alvarez@east.com
tchudaj@east.com

ALPHA Job #: L2460271

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

ANALYSIS

TO-15
TO-15 SIM
APH
Sulfides & Mercaptans by TO-15
Fixed Gases
Sulfides & Mercaptans by TO-15
Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15	APH	Fixed	Sulfides		Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum													
60271-01	Gymnasium	10/15/24	0945	1029	-29.3	0.06	AA	TC	6L	3325	01522	X							
02	Cafeteria		0952	1028	-29.3	-1.40	AA	TC		3564	0490	X							
03	Kitchen Storage		0953	1027	-29.4	-3.93	AA	TC		2806	01916	X							
04	Elevator Hallway		0930	1006	-29.4	-0.07	AA	TC		991	01466	X							Transferred with by a student during sampling - see 60271-01
05	Room 145		0931	1007	-29.6	-1.53	AA	TC		2926	0912	X							
06	Room 152		0934	1008	-29.5	-2.64	AA	TC		765	01443	X							
07	Room 118		0923	1002	-29.6	-0.66	AA	TC		1549	0398	X							
08	Room 110		0926	1004	-29.5	-0.96	AA	TC		4244	02172	X							
09	Room 116		0924	1003	-29.4	-0.46	AA	TC		2448	01581	X							
10	Outdoor Ambient		1125	1158	-29.3	-3.80	AA	TC		1972	02126	X							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:



ANALYTICAL REPORT

Lab Number:	L2469299
Client:	EA Engineering, Science and Technology 301 Metro Center Blvd. Suite 102 Warwick, RI 02886
ATTN:	Jonathan Alvarez
Phone:	(401) 287-0371
Project Name:	ALVAREZ H.S.
Project Number:	15066.12
Report Date:	12/18/24

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com



Project Name: ALVAREZ H.S.
Project Number: 15066.12

Lab Number: L2469299
Report Date: 12/18/24

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2469299-01	RM-116	AIR	PROVIDENCE, RI	11/22/24 15:20	11/22/24

Project Name: ALVAREZ H.S.
Project Number: 15066.12

Lab Number: L2469299
Report Date: 12/18/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: ALVAREZ H.S.
Project Number: 15066.12

Lab Number: L2469299
Report Date: 12/18/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on November 22, 2024. The canister certification data is provided as an addendum.

The WG2010415-3 LCS recovery for naphthalene (132%), associated with L2469299-01, is above the upper 130% acceptance limit. All samples associated with this LCS do not have reportable amounts of this analyte.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 12/18/24

AIR

Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24**SAMPLE RESULTS**

Lab ID: L2469299-01
 Client ID: RM-116
 Sample Location: PROVIDENCE, RI

Date Collected: 11/22/24 15:20
 Date Received: 11/22/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air

Analytical Method: 48,TO-15

Analytical Date: 12/17/24 23:57

Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	103		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	103		60-140



Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24**SAMPLE RESULTS**

Lab ID: L2469299-01
 Client ID: RM-116
 Sample Location: PROVIDENCE, RI

Date Collected: 11/22/24 15:20
 Date Received: 11/22/24
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 12/17/24 23:57
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--		1
Chloromethane	0.471	0.200	--	0.973	0.413	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	5.53	1.00	--	13.1	2.38	--		1
Trichlorofluoromethane	0.162	0.050	--	0.910	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	0.097	0.020	--	0.385	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	0.023	0.020	--	0.112	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.209	0.100	--	0.668	0.319	--		1
Carbon tetrachloride	0.085	0.020	--	0.535	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1



Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24**SAMPLE RESULTS**

Lab ID: L2469299-01
 Client ID: RM-116
 Sample Location: PROVIDENCE, RI

Date Collected: 11/22/24 15:20
 Date Received: 11/22/24
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.274	0.100	--	1.03	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.043	0.020	--	0.187	0.087	--		1
p/m-Xylene	0.164	0.040	--	0.712	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	0.030	0.020	--	0.128	0.085	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.092	0.020	--	0.400	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethybenzene	0.028	0.020	--	0.138	0.098	--		1
1,2,4-Trimethylbenzene	0.087	0.020	--	0.428	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24**SAMPLE RESULTS**

Lab ID: L2469299-01

Date Collected: 11/22/24 15:20

Client ID: RM-116

Date Received: 11/22/24

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	101		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	100		60-140



Project Name: ALVAREZ H.S.

Lab Number: L2469299

Project Number: 15066.12

Report Date: 12/18/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/17/24 19:28

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG2010414-4								
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: ALVAREZ H.S.

Lab Number: L2469299

Project Number: 15066.12

Report Date: 12/18/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/17/24 20:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG2010415-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1



Project Name: ALVAREZ H.S.

Lab Number: L2469299

Project Number: 15066.12

Report Date: 12/18/24

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 12/17/24 20:07

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01 Batch: WG2010415-4								
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: ALVAREZ H.S.

Project Number: 15066.12

Lab Number: L2469299

Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG2010414-3								
1,3-Dichloropropane	80		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ALVAREZ H.S.

Project Number: 15066.12

Lab Number: L2469299

Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG2010415-3								
Dichlorodifluoromethane	94		-		70-130	-		25
Chloromethane	80		-		70-130	-		25
Vinyl chloride	83		-		70-130	-		25
Chloroethane	69	Q	-		70-130	-		25
Acetone	86		-		40-160	-		25
Trichlorofluoromethane	82		-		70-130	-		25
Acrylonitrile	95		-		70-130	-		25
1,1-Dichloroethene	78		-		70-130	-		25
Methylene chloride	97		-		70-130	-		25
trans-1,2-Dichloroethene	73		-		70-130	-		25
1,1-Dichloroethane	70		-		70-130	-		25
Methyl tert butyl ether	79		-		70-130	-		25
2-Butanone	82		-		70-130	-		25
cis-1,2-Dichloroethene	74		-		70-130	-		25
Chloroform	96		-		70-130	-		25
1,2-Dichloroethane	75		-		70-130	-		25
1,1,1-Trichloroethane	94		-		70-130	-		25
Benzene	99		-		70-130	-		25
Carbon tetrachloride	104		-		70-130	-		25
1,2-Dichloropropane	82		-		70-130	-		25
Bromodichloromethane	125		-		70-130	-		25
Trichloroethene	103		-		70-130	-		25
cis-1,3-Dichloropropene	101		-		70-130	-		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: ALVAREZ H.S.

Project Number: 15066.12

Lab Number: L2469299

Report Date: 12/18/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG2010415-3								
4-Methyl-2-pentanone	108		-		70-130	-		25
trans-1,3-Dichloropropene	108		-		70-130	-		25
1,1,2-Trichloroethane	90		-		70-130	-		25
Toluene	81		-		70-130	-		25
Dibromochloromethane	104		-		70-130	-		25
1,2-Dibromoethane	76		-		70-130	-		25
Tetrachloroethene	81		-		70-130	-		25
1,1,1,2-Tetrachloroethane	89		-		70-130	-		25
Chlorobenzene	75		-		70-130	-		25
Ethylbenzene	81		-		70-130	-		25
p/m-Xylene	83		-		70-130	-		25
Bromoform	101		-		70-130	-		25
Styrene	77		-		70-130	-		25
1,1,2,2-Tetrachloroethane	100		-		70-130	-		25
o-Xylene	84		-		70-130	-		25
Isopropylbenzene	81		-		70-130	-		25
1,3,5-Trimethylbenzene	82		-		70-130	-		25
1,2,4-Trimethylbenzene	82		-		70-130	-		25
1,3-Dichlorobenzene	82		-		70-130	-		25
1,4-Dichlorobenzene	83		-		70-130	-		25
sec-Butylbenzene	80		-		70-130	-		25
p-Isopropyltoluene	84		-		70-130	-		25
1,2-Dichlorobenzene	83		-		70-130	-		25

Lab Control Sample Analysis
Batch Quality Control**Project Name:** ALVAREZ H.S.**Project Number:** 15066.12**Lab Number:** L2469299**Report Date:** 12/18/24

Parameter	<i>LCS</i> <i>%Recovery</i>	<i>Qual</i>	<i>LCSD</i> <i>%Recovery</i>	<i>Qual</i>	<i>%Recovery</i> <i>Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> <i>Limits</i>
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01 Batch: WG2010415-3								
n-Butylbenzene	98		-		70-130	-		25

Project Name: ALVAREZ H.S.
Project Number: 15066.12

Serial_No:12182415:55
Lab Number: L2469299
Report Date: 12/18/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controller Leak Chk	Flow Out mL/min	Flow In	% RPD
L2469299-01	RM-116	0366	Flow 1	11/22/24	494614		-	-	-	Pass	161	166	3
L2469299-01	RM-116	3267	6.0L Can	11/22/24	494614	L2467878-01	Pass	-28.7	-3.2	-	-	-	-



Project Name: INDIV. CANISTER CERTIFICATION**Lab Number:** L2467878**Project Number:** CANISTER QC INDIV**Report Date:** 12/18/24**Air Canister Certification Results**

Lab ID: L2467878-01
 Client ID: CAN 3267 FC 0366
 Sample Location:

Date Collected: 11/19/24 09:00
 Date Received: 11/19/24
 Field Prep: Not Specified

Sample Depth:

Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 11/20/24 05:48
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2467878
Report Date: 12/18/24

Air Canister Certification Results

Lab ID: L2467878-01
Client ID: CAN 3267 FC 0366
Sample Location:

Date Collected: 11/19/24 09:00
Date Received: 11/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, Total	ND	0.200	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	0.200	--	ND	0.793	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2467878
Report Date: 12/18/24

Air Canister Certification Results

Lab ID: L2467878-01
Client ID: CAN 3267 FC 0366
Sample Location:

Date Collected: 11/19/24 09:00
Date Received: 11/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: INDIV. CANISTER CERTIFICATION
Project Number: CANISTER QC INDIV

Lab Number: L2467878
Report Date: 12/18/24

Air Canister Certification Results

Lab ID: L2467878-01
Client ID: CAN 3267 FC 0366
Sample Location:

Date Collected: 11/19/24 09:00
Date Received: 11/19/24
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: INDIV. CANISTER CERTIFICATION**Lab Number:** L2467878**Project Number:** CANISTER QC INDIV**Report Date:** 12/18/24**Air Canister Certification Results**

Lab ID: L2467878-01

Date Collected: 11/19/24 09:00

Client ID: CAN 3267 FC 0366

Date Received: 11/19/24

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	89		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	92		60-140



Project Name: ALVAREZ H.S.
Project Number: 15066.12

Serial_No:12182415:55
Lab Number: L2469299
Report Date: 12/18/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2469299-01A	Canister - 6L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

*Values in parentheses indicate holding time in days



Project Name: ALVAREZ H.S.
Project Number: 15066.12

Lab Number: L2469299
Report Date: 12/18/24

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: ALVAREZ H.S.
Project Number: 15066.12

Lab Number: L2469299
Report Date: 12/18/24

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: ALVAREZ H.S.**Lab Number:** L2469299**Project Number:** 15066.12**Report Date:** 12/18/24

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLC

ID No.:17873

Facility: **Northeast**

Revision 23

Department: **Quality Assurance**

Published Date: 12/09/2024

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases****Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: **EPA RSK-175 Dissolved Gases**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables).**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Project Manager.

