Amec Foster Wheeler E&I, Inc.

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Transmittal Letter

To: Joe Martella	Date: September 27, 2017
Rhode Island Dept Environmental Management	Client: Textron, Inc
Office of Waste Management	Project: Former Gorham Manufacturing Facility
235 Promenade Street	Providence, RI
Providence, RI 02908-5767	AMEC Project No.: 3652-15-0005.0000.****
Tel: 401.222.2797 ext 7109	Delivery: US Mail

☒ information	☐ purchasing	REMARKS: Enclosed please find one hard copy of the September 2017 Semi-
☐ estimating	☐ construction	Annual Indoor Air Monitoring Report for the Retail Building, Parcel A of the
☐ comments and/or approval	☐ see remarks	former Gorham Manufacturing Site, Providence, RI. The electronic pdf file has
		been emailed to you to upload to the Project website supporting the public
		outreach activities for the Site. All other recipients are receiving one hard copy
		report.
		Please contact me or Greg Simpson if you have any questions regarding
		the enclosed documents.
		Prepared By: David E. Heislein

Number	Revision No.	No. of Copies	Title or Description
1	-	1	September 2017 Semi-Annual Air Monitoring Report, Active Sub-slab Depressurization System, Former Gorham Manufacturing Facility, 333 Adelaide Avenue, Providence, Rhode Island, dated September 27, 2017

Distribution: T = Transmittal Letter; C = Copy of Document

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September 27, 2017

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

RE: Air Monitoring Report
September 2017 Semi-Annual Monitoring
Retail Complex, Active Sub-Slab Depressurization System
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, Rhode Island
AMEC Project No. 3652150005

Dear Mr. Martella:

This letter report presents the results of semi-annual compliance sampling and analysis conducted by Amec Foster Wheeler (formerly AMEC) at the retail complex located at the Former Gorham Manufacturing Facility, 333 Adelaide Avenue, Providence, Rhode Island (Site). The reporting period is from February 2017 through September 2017 and includes one semi-annual compliance sampling event conducted on September 6, 2017.

The sampling, analysis and reporting are being conducted consistent with the Rhode Island Department of Environmental Management (RIDEM) Short Term Response Action Order of Approval, dated July 24, 2008 and the Addendum to the Order of Approval dated August 7, 2008 (collectively referred to as the Orders of Approval).

Background

The active sub-slab depressurization (ASD) system, also called a vapor mitigation system, in the large retail space consists of four extraction wells connected to a 3 hp Rotron regenerative blower. The blower is located in an enclosure located at the north, or rear, of the large retail space (Figure 1).

The small retail spaces consist of the eastern, central, and western retail spaces (Figure 1). The mitigation systems in the central and western small retail spaces consist of one extraction well in each space connected to an individual radon-type fan, located at the north, or rear, of the small retail spaces. The eastern small retail space extraction well is located along the wall of the large retail space (EW-5) and is part of the ASD system described above.

Small Retail Spaces

The indoor air monitoring of the three small retail spaces, consistent with the requirements of the Orders of Approval, was completed on September 6, 2017. This is the third semi-annual monitoring event since the change from quarterly monitoring after February 2016, based on the historical indoor air data and performance of the existing vapor mitigation system.

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Table 1 summarizes the analytical results at the small retail spaces for the baseline indoor air sampling event conducted prior to system start-up in February 2009 and all subsequent sampling events conducted after system start-up through September 6, 2017. Results of the indoor air samples were compared to the Draft Connecticut Industrial/Commercial Indoor Target Air Concentrations (TAC), which were identified as action levels in the Orders of Approval. The laboratory report (17I0332) associated with the September 6, 2017 semi-annual sampling event is provided in Appendix A of this letter report. The analytical laboratory's detection limits are provided in Appendix B.

The sampling event included an indoor air sample from each of the small retail spaces (locations IA-5, IA-6, and IA-7), one outdoor air reference sample (location AA-1), and one air sample collected from each of the three vapor extraction wells (EW-5, EW-6, and EW-7). The sampling locations are shown in Figure 1. The outdoor reference air sample (AA-1) was located south of the property, upwind of the retail building. The sub-slab vacuum monitoring (pressure differential measurements) was conducted at locations VMW-5, VMW-6, and VMW-7 on September 6, 2017 in conjunction with the semi-annual air sampling program. The vacuum monitoring results are tabulated in Table 2.

The following conclusions are based on Site observations and the data from Table 1.

- Indoor air sample results are in compliance with action levels for the semi-annual sampling event in the small retail space (sample locations IA-5 through IA-7) except for chloroform. The concentration of chloroform in sample from IA-5 was slightly above the TAC (0.84 ug/m3 vs. 0.50 ug/m3) located in the eastern most section of the small retail spaces, adjacent to the former Stop & Stop. As communicated to RIDEM in previous reports, Chloroform is not a constituent of concern for the site and is therefore not one of the compounds for which the vapor mitigation system was designed to address. There has been more activity in the small retail space in 2017, and it is possible that some volatile compounds are being introduced into the indoor air by the activity through cleaning fluids. The chloroform appears to be unrelated to the vapor intrusion pathway and the concentrations of chloroform above the action level do not constitute a violation of the action levels contained in the Orders of Approval. The mitigation system is functioning as designed and is achieving desired results with respect to indoor air quality in the large retail space
- The eastern small retail space (indoor air sample location IA-5) was occupied as a church during this sampling event.
- The center small retail space (sample location IA-6) was occupied as a consignment shop during this sampling event.
- The western small retail space (sample location IA-7) is intermittently occupied for church functions.
- The mitigation systems are functioning as designed.

Large Retail Space

The indoor air monitoring event for the large retail space, consistent with the requirements of the Orders of Approval, was completed on September 6, 2017. Table 3 summarizes the analytical results for the large retail space for the baseline sampling event conducted prior to 2009 system start-up and all subsequent sampling events conducted after system start-up through September 6, 2017. Results of the indoor air samples were compared to the Draft Connecticut Industrial/Commercial Indoor TAC, which were identified as action levels in the Orders of Approval. The laboratory report (17IO322) associated with the September 6, 2017 semi-annual sampling

event is provided in Appendix A of this letter report. The analytical laboratory's detection limits are provided in Appendix B.

The sampling event included collection of samples from each of the indoor air sampling points in the large retail space (locations IA-1 through IA-4), one outdoor air reference sample (location AA-1), and one air sample collected from the manifold where air from the four vapor extraction wells is collected (EW-Combined). The sampling locations are shown in Figure 1. The outdoor reference air sample (AA-1) was located south of the property upwind of the retail building. The sub-slab vacuum monitoring (pressure differential measurements) was conducted on September 6, 2017 at locations VMW-1 through VMW-4 in conjunction with the air sampling program. The vacuum monitoring results for the large retail space are tabulated in Table 4.

The following conclusions are based on Site observations and the data from Table 3.

- Indoor air sample results are in compliance with action levels for the semi-annual sampling event in the large retail space (sample locations IA-1 through IA-4) except for chloroform. The concentration of chloroform in sample from IA-2 was slightly above the TAC (0.68 ug/m3 vs. 0.50 ug/m3) and IA-4 at (0.69 ug/m3 vs. 0.50 ug/m3) both on the eastern section of the large retail space. As communicated to RIDEM in previous reports, Chloroform is not a constituent of concern for the site and is therefore not one of the compounds for which the vapor mitigation system was designed to address. There has been continuous activity in this section of the large retail space for use a health fitness club, and it is possible that some volatile compounds are being introduced into the indoor air by the activity through cleaning fluids. The chloroform appears to be unrelated to the vapor intrusion pathway and the concentrations of chloroform above the action level do not constitute a violation of the action levels contained in the Orders of Approval. The mitigation system is functioning as designed and is achieving desired results with respect to indoor air quality in the large retail space.
- The mitigation system is functioning as designed and is achieving desired results with respect to indoor air quality in the large retail space.
- The large retail space has been subdivided into two spaces. The eastern section is currently occupied by a health fitness club which opened in January of 2013. This space was recently updated to change the name of the gym to "Blast" as part of a nationwide revision. This space includes indoor air sample locations IA-2 and IA-4 and sub-slab vacuum monitoring well VMW-2.
- The western side of the large retail space remains vacant and includes indoor air sample locations IA-1 and IA-3, vapor extraction well EW-5 and sub-slab vacuum monitoring locations VMW-1, VMW-3, and VMW-4.

ASD System Monitoring/Maintenance

The ASD system performance is monitored monthly by Clean Harbors Environmental Services. Over the last six months the system shut down briefly May 9 and June 21. Both system shut downs were due to power interruptions and the system was back on line within hours. There were no other system shutdowns during the reporting period. Vacuum monitoring conducted at the time of the September 2017 indoor air monitoring event indicated that the desired negative pressure condition existed at the various sub-slab monitoring points.

Next Reporting Period

The next Semi-Annual report will cover the monitoring period from October 2017 through February 2018. The report will be prepared and submitted to the Rhode Island Department of Environmental Management in March 2018.

Please contact the undersigned at (978) 692-9090 if we can provide additional information or answer any questions concerning these monitoring events and system adjustments.

Sincerely,

Amec Foster Wheeler Environment &Infrastructure, Inc.

Mark Maggiore
Environmental Scientist

David E. Heislein
Senior Project Manager

Enclosures:
- Table 1. Summary of Analytical Results – Air Sampling for Small Retail Spaces
- Table 2. Vacuum Monitoring Results – Small Retail Spaces
- Table 3. Summary of Analytical Results – Air Sampling for Large Retail Space
- Table 4. Vacuum Monitoring Results – Large Retail Space

- Figure 1 Vapor Mitigation Sample Locations

- Appendix A – Laboratory Reports
- Appendix B – Analytical Laboratory Detection Limits

cc: Robert Azar, Deputy Director - Providence Planning & Development
G. Simpson, Textron, Inc. (Electronic)
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P:\BOS\Textron\3652150005 - Textron Gorham ASD System\8.0 Proj Deliverables\8.1 Reports\September 2017 _Semiannual\Gorham_September_2017 Final 092717.docx

TABLES

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Outdoor Air Reference Locations																																							
Parameter (ug/m^3)	AA-1 011609 1/16/2009	AA-1- 020309 2/3/2009	AA-1- 021109 2/11/2009	AA-1- 021809 2/18/2009	AA-1- 022609 2/26/2009	AA-1- 030609 3/6/2009	AA-1- 033109 3/31/2009	AA-1- 041409 4/14/2009	AA-1- 042409 4/24/2009	AA-1- 051509 5/15/2009	AA-1- 061109 6/11/2009	AA-1- 091709 9/17/2009	AA-1- 092409 9/24/2009	AA-1- 100109 10/1/2009	AA-1- 100809 10/8/2009	AA-1- 122909 12/29/2009	AA-1- 012810 1/28/2010	AA-1- 020510 2/5/2010	AA-1- 021210 2/12/2010	AA-1- 021910 2/19/2010	AA-1- 032610 3/26/2010	AA-1- 043010 4/30/2010	AA-1- 052810 5/28/2010	AA-1- 070110 7/1/2010	AA-1- 091610 9/16/2010	AA-1- 120710 12/7/2010	AA-1- 021711 2/17/2011	AA-1- 060211 6/2/2011	AA-1 091511 9/15/2011	AA-1 120811 12/8/2011	AA-1- 030812 3/8/2012	AA-1- 061412 6/14/2012	AA-1- 091312 9/13/2012	AA-1- 010313 1/3/2013	AA-1- 031513 3/15/2013	AA-1- 060713 6/7/2013	AA-1- 090613 9/6/2013	AA-1- 100313 10/3/2013	AA-1- 121313 12/13/2013	AA-1- 030714 3/7/2014	AA-1- 061314 6/13/2014
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.29	0.082 U	0.10	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane																													0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.42 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.063	0.061 U	0.12 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
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.16
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.62	0.45 U	0.12	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.25 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.25 U	0.28	0.52	1.8	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.29	0.30	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	0.25 U	0.25 U	0.94	0.25 U	1.1	0.25 U	0.25 U	0.16	0.15 U	0.15 U	0.26	0.17 U	0.069	0.21	0.17 U	0.19	0.17 U	0.17 U	0.51
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.26 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.34	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.066	0.061 U	0.046	0.14 U	0.14 U	0.057	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.50	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.28	0.25 U	0.33	0.25 U	0.25 U	0.068	0.15 U	0.15 U	0.16	0.17 U	0.17 U	0.17 U	0.17 U	0.047	0.17 U	0.17 U	0.18
1,3-Butadiene	0.11 U	0.11 U	0.17	1.3	0.11 U	0.11 U	0.11 U	0.080 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.29	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.075 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.53	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane																													0.18 U												
2-Butanone	0.58	1.2	2.4	3.2	1.6	0.67	1.7	0.11 U	1.6	1.6	1.1	1.7	0.84	1.2	1.2	2.0	0.81	1.6	1.6	0.88	1.5	1.4	2.4	2.3	2.7	0.37	1.8 B	2.9 U	5.9 U	0.35	1.4	1.1	2.0	0.89	1.9	3.9	3.7	0.94	0.82	1.4	2.2
2-Hexanone	0.20 U	0.22	0.57	0.35	0.20 U	0.20 U	0.20 U	0.14 U	0.26	0.39	0.20 U	0.34	0.20 U	0.33	0.23	0.20 U	0.20 U	0.32	0.20 U	0.20 U	0.29	0.29	0.49	0.49	0.41	0.20 U	0.20 U	4.1 U	0.67	0.12 U	0.34	0.14	0.27	0.14 U	0.13	0.49	0.32	0.14 U	0.14 U	0.26	0.34
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.6	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.30	0.25 U	0.34	0.25 U	0.25 U	0.053	0.15 U	0.15 U	0.093	0.17 U	0.17 U	0.17 U	0.17 U	0.063	0.17 U	0.17 U	0.18
4-Methyl-2-pentanone	0.20 U	0.20 U	0.27	0.63	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.34	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	2.8	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.23	0.10	0.14 U	0.083	0.24	0.14 U	0.14 U	0.14 U	0.14 U	0.2
Acetone	7.3	8.0	15	22	8.4	5.9	12	1.1	27	9.5	10	10	9.6	5.4	17	11	3.5	7.6	5.0	3.7	9.5	12	20	13	14	5.7 B	19 B	8.7 B	20	4.9	9.4	10	12	8.7	18	28	16	12	26	9.3	22
Benzene	0.69	0.62	1.3	4.7	0.43	0.69	0.46	0.12 U	0.30	0.40	0.49	0.38	0.35	0.25	0.20	0.42	0.79	0.68	0.63	0.41	0.69	0.35	0.19	0.16 U	1.2	0.28	2.3	0.16 U	0.19	0.40	0.29	0.20	0.68	0.42	1.0	0.31	0.70	0.95	0.43	1.0	0.9
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U	0.24 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.28	0.16 U	0.16 U	0.44	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.38	0.16 U	0.16 U	1.6 U	0.058	0.93 U	0.11	1.1 U	1.1 U	0.052	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.38	0.44	0.52	0.56	0.43	0.61	0.47	0.22 U	0.41	0.78	0.43	0.40	0.40	0.43	0.46	0.39	0.42	0.39	0.31 U	0.43	0.49	0.47	0.52	0.51	0.43	0.42	0.48	0.53	0.48	0.49	0.43	0.43	0.36	0.52	0.41	0.55	0.47	0.43	0.45	0.22	0.42
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.089 U	0.093 U	0.093 U	0.11
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.094	0.073 U	0.067	0.096	0.17 U	0.21	0.17 U	0.17 U	0.10	0.17 U	0.17 U	0.17 U
Chloromethane	1.1	0.90	1.4	1.5	1.1	1.1	1.3	1.1	1.2	1.1	1.2	0.85	1.1	0.97	0.96	1.6	1.1	1.2	1.3	1.1	1.4	0.78	1.1	0.96	0.99	0.94	1.0	0.96	1.4	0.062 U	1.1	1.5	1.1	1.0	1.6	1.4	1.1	0.96	1.1	1.3	1.4
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12	0.059 U	0.12 U	0.14 U	0.14 U	0.092	0.14 U	0.16	0.13 U	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.17 U	0.17 U	0.35	1.1	0.17 U	0.17 U	0.17 U	0.12 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 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.46	0.17 U	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 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	0.31
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.29 U	0.30 U	0.30 U	0.30 U
Dichlorodifluoromethane	2.0	2.2	2.6	2.7	2.6	2.6	2.8	2.0	2.5	2.7	2.6	2.1	2.1	2.2	2.1	2.1	2.3	2.4	2.5	2.9	1.8	2.1	2.5	2.4	2.9	1.9	3.1	1.9	1.7	2.5	2.0	2.4	2.8	2.5	1.7	3.0	2.0	1.8	2.7	1.4	2
Ethanol	4.0	5.4	10	47	4.3	3.5	4.7	0.81	4.9	4.8	8.6	6.6	4.6	3.9	4.9	3.8	5.4	5.1	7.2	1.2	4.9	4.0	3.3	4.0	14	2.3	12	2.7	5.8	1.5	4.1	7.4	5.2	2.7	1.2	6.1	6.7	6.7	5.4	9.0	17.0
Ethyl acetate	0.37 U	0.37 U	0.18 U	0.31	0.37 U	0.18 U	0.18 U	0.26 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	1.1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.46	0.56	0.43	0.67	0.35	1.1	0.56	17	0.12 U	0.13 U	0.18	0.13 U
Ethylbenzene	0.22 U	0.25	0.52	2.0	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.24	0.22 U	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.82	1.4	0.22 U	1.1	0.22 U	0.22 U	0.31	0.13 U	0.065	0.19	0.15 U	0.12	0.16	0.15 U	0.21	0.15 U	0.16	0.44
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U
Hexane	1.5	0.75	1.1	2.9	0.38	2.8	2.2	0.13 U	0.56	0.37	0.59	0.48	1.4	0.45	4.5	0.62	0.36	0.53	0.91	0.24	0.23	1.1	0.51	0.37	1.2	0.35 U	3.3	0.88	7.0 U	0.47	0.54	1.3	0.67	1.4	1.3	1.8	2.3	0.81	0.32	0.44	1.2
Isopropyl alcohol	1.4	1.4	1.8	4.3	1.4	0.67	1.4	0.18 U	14	1.0	2.5	2.8	0.87	0.63	0.25 U	0.54	0.56	2.7	1.5	0.80	0.73	0.69	1.6	0.79	0.25 U	0.29	2.4	1.2 U	4.9 U	0.60	0.88	2.9 U	0.58	0.47	0.52	1.3	6.2	3.3 U	0.77	0.92	3.1
m,p-Xylene	0.43 U	0.72	1.4	6.4	0.44	0.43 U	0.43 U	0.31 U	0.43 U	0.49	0.73	0.62	0.59	0.43 U	0.43 U	0.43 U	0.43 U	0.50	0.47	0.43 U	0.49	0.43 U	0.43 U	2.2	3.7	0.43 U	3.3	0.43 U	0.43 U	0.41	0.17	0.18	0.64	0.30 U	0.34	0.58	0.21	0.53	0.30 U	0.42	1.4
Methyl methacrylate																										0.20 U	0.48	0.20 U	0.20 U	0.12 U	0.12 U	0.12 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
Methylene chloride	5.5	3.1	0.65	1.5	0.78	7.4	15	2.1	2.8	1.7	1.9	0.70 U	4.2	0.70 U	23	4.6	1.3	1.9	1.7	0.70 U	0.70 U	0.70 U	0.35 U	1.1	1.1	0.66	3.0	2.3	1.7 U	1.5	1.6	3.0	2.1	4.4	2.9	2.3	9.1	1.0	0.76	0.55	1.20
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.20 U	0.27	0.92	1.6	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.40	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.26	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.91	0.20 U	0.95	0.20 U	0.20 U	0.12	0.089	0.11	0.18	0.14 U	0.12	0.21	0.15	0.18	0.14 U	0.21	0.62
o-Xylene	0.22 U	0.27	0.53	2.2	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.24	0.27	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.46	1.2	0.22 U	1.1	0.22 U	0.22 U	0.22	0.086	0.078	0.31	0.15 U	0.12	0.20	0.15 U	0.24	0.15 U	0.17	0.5
Propylene (Propene)	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U	0.13 U	0.18 U	0.090 U	0.090 U	0.35 U	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	0.87 U	1.9	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	0.77	1.3	2.4 U	2.4 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U	1.3
Styrene	0.21 U	0.21 U	0.21 U	0.28	0.21 U	0.21 U	0.21 U	0.15 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	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	0.21 U	0.21 U	0.37	0.13 U	0.10	0.13	0.15 U	0.039	0.15 U	0.15 U	0.052	0.15 U	0.15 U	0.16
Tetrachloroethene	0.34 U	0.34 U	0.73	0.77	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.52	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.49	0.34 U	5.3	0.34 U	0.34 U	0.73	0.10 U	0.20 U	0.87	0.24 U	0.90	0.24 U	0.24 U	0.30	0.24 U	0.24 U	0.4
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.057	0.088 U	0.088 U	0.43	0.10 U	0.10 U	0.10 U	1.4	0.10 U	0.10 U	0.23	0.10 U
Toluene	0.94	1.5	3.2	14	0.71	0.99	0.82	0.14 U	0.72	2.6	2.1	1.9	2.0	0.61	0.50	0.78	0.94	0.64	0.97	0.46	1.1	0.75	0.63	0.57	10	0.19 U	5.3	0.52	0.47	0.56	0.37	0.42	0.81	0.48	0.74	1.2	1.4	1.3	0.35	1.2	2.6
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.39	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.30	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.67	0.081 U	0.045	0.091	0.19 U	0.26	0.19 U	0.19 U	0.11	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	1.3	1.2	1.7	2.4	1.5	2.0	1.7	0.92	1.3	1.5	2.0	1.1	1.4	1.2	1.5	2.2	1.2	1.2	1.6	1.5	1.5	1.2	1.4	1.3	11	1.2	1.7	1.5	1.5	1.7	1.1	1.7	1.5	1.5	1.3	1.8	11	3.3	1.5	1.1	1.4
Trichlorotrifluoroethane	0.68	0.53	0.5	0.47	0.64	0.48	0.51	0.27 U	0.64	0.67	0.56	0.47	0.49	0.45	0.46	0.54	0.49	0.55	0.54	0.54	0.62	0.45	0.58	0.56	0.44	0.56	0.66	0.69	0.58	0.89	0.43	0.53	0.59	0.58	0.66	1	0.6	0.55	0.55	0.46	0.54
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.50 U	0.71 U	0.18 U	0.18 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.087 U	0.090 U	0.090 U	0.090 U

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Outdoor Air Reference Locations										Extraction Well - Eastern Small Retail Space									
Parameter (ug/m^3)	AA-1- 091214 9/12/2014	AA-1- 121914 12/19/2014	AA-01- 032715 3/27/2015	AA-1- 061115 6/11/2015	AA-1- 091615 9/16/2015	AA-1- 121815 12/18/2015	AA-1- 021816 2/18/2016	AA-1- 080516 8/5/2016	AA-1- 021017 2/10/2017	AA-1- 090717 9/7/2017	EW-5- 020309 2/3/2009	EW-5- 021109 2/11/2009	EW-5- 021809 2/18/2009	EW-5- 022609 2/26/2009	EW-5- 030609 3/6/2009	EW-5- 041409 4/14/2009	EW-5- 051509 5/15/2009	EW-5- 061109 6/11/2009	EW-5- 091709 9/17/2009	EW-5- 122909 12/29/2009
1,1,1-Trichloroethane	0.055 U	0.19 U	0.19 U	0.19 U	0.073 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	190000	41000	17000	7100	1800	2600	3100	1900	3500	920
1,1,1,2-Tetrachloroethane	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U										
1,1,2,2-Tetrachloroethane	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.8 U	6.8 U	6.8 U	6.8 U	1.7 U	68 U	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-Trichloroethane	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	5.4 U	5.4 U	5.4 U	5.4 U	1.4 U	54 U	2.7 U	2.7 U	2.7 U	2.7 U
1,1-Dichloroethane	0.04 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	11000	1900	890	770	190	360	450	430	230	100
1,1-Dichloroethene	0.04 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	2500	290	130	190	61	160	160	160	98	30
1,2,4-Trichlorobenzene	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	7.4 U	7.4 U	7.4 U	7.4 U	1.9 U	74 U	3.7 U	3.7 U	3.7 U	7.5 U
1,2,4-Trimethylbenzene	0.069 J	0.17 U	0.2	0.059 J	0.29	0.31	0.17 U	0.17 U	0.17 U	0.17 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (EDB)	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	76 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2-Dichlorobenzene	0.12 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	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2-Dichloroethane	0.037 J	0.14 U	0.14 U	0.054 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	46 U	2.3 U	2.3 U	2.3 U	2.3 U
1,2-Dichlorotetrafluoroethane						0.25 U		0.25 U			7.0 U	7.0 U	7.0 U	7.0 U	1.8 U	70 U	3.5 U	3.5 U	3.5 U	3.5 U
1,3,5-Trimethylbenzene	0.098 U	0.17 U	0.062 J	0.17 U	0.076 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Butadiene	0.044 U	0.078 U	0.078 U	0.078 U	0.18	0.23	0.078 U	0.078 U	0.078 U	0.9	2.2 U	2.2 U	2.2 U	2.2 U	0.55 U	22 U	1.1 U	1.1 U	2.3 U	1.1 U
1,3-Dichlorobenzene	0.12 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	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U
1,4-Dichlorobenzene	0.12 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	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U
1,4-Dioxane						1.3 U		1.3 U												
2-Butanone	1.1 J	1.2 J	0.96 J	2.1 J	1 J	2 J	0.69 J	1.2 J	0.91 J	2.4 J	6.3	89	75	170	3700	64000	100000	230000	110000	7800
2-Hexanone	0.16	0.14 U	0.17	0.17	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	40 U	2.7	2.0 U	2.0 U	2.0 U
4-Ethyltoluene	0.098 U	0.17 U	0.079 J	0.17 U	0.093 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-pentanone	0.036 J	0.14 U	0.092 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.30	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	25	10	8.7	10	13	18	6.3	11	3.1 J	16	530	32	52	29	460	5600	14000	6900	9200	1700
Benzene	0.2	0.6	0.7	0.41	0.82	1.4	0.45	0.35	0.37	2.2	13.0	12.0	6.2	4.8	5.6	32 U	11.0	7.1	11.0	6.3
Benzyl chloride	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	5.2 U	5.2 U	5.2 U	5.2 U	1.3 U	52 U	2.6 U	2.6 U	2.6 U	2.6 U
Bromodichloromethane	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.6 U	6.6 U	6.6 U	6.6 U	1.7 U	66 U	3.3 U	3.3 U	3.3 U	3.3 U
Bromoform	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	11 U	11 U	11 U	11 U	2.6 U	110 U	5.1 U	5.1 U	5.1 U	5.1 U
Bromomethane	0.078 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	3.8 U	3.8 U	3.8 U	3.8 U	0.95 U	38 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbon disulfide	0.098 J	1.1 U	0.057 J	1.1 U	0.09 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.2 U	3.2 U	3.2 U	3.2 U	0.80 U	230	4	5.4	8.2	2.9
Carbon tetrachloride	0.45	0.36	0.34	0.36	0.43	0.55	0.38	0.39	0.44	0.4	6.2 U	6.2 U	6.2 U	6.2 U	1.6 U	62 U	3.1 U	3.1 U	3.1 U	3.1 U
Chlorobenzene	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	46 U	2.3 U	2.3 U	2.3 U	2.3 U
Chloroethane	0.053 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U	260	23	16	11	4.5	26 U	11	15	7	6.5
Chloroform	0.08	0.082 J	0.065 J	0.11 J	0.18	0.31	0.17 U	0.17 U	0.17 U	0.17 U	83	32	20	16	2.8	48 U	7.2	6.5	5.8	2.6
Chloromethane	0.64	0.96	1.1	1.2	1.1	1.2	1	1.2	1.2	1.2	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	0.04 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	2900.00	710.00	400.00	410.00	100.00	150.00	270.00	250.00	170.00	58.00
cis-1,3-Dichloropropene	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U
Cyclohexane	0.069 U	0.12 U	0.12 U	0.12 U	0.12 U	0.59	0.12 U	0.12 U	0.12 U	0.12 U	3.4 U	3.4 U	3.4 U	3.4 U	0.85 U	34 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromochloromethane	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	86 U	4.3 U	4.3 U	4.3 U	4.3 U
Dichlorodifluoromethane	2.2	2.1	1.4	2.3	1.7	2.7	1.6	0.6	1.0	1.5	5.0 U	5.0 U	5.0 U	5.0 U	2.7	50 U	3.0	3.2	2.5 U	2.5 U
Ethanol	2.9	2.7	2 J	5	12	7	2.5 J	6	2.5 J	2.2 J	320	36	46	33	22	130	30	26	3.8 U	45
Ethyl acetate	0.17	0.13 U	0.27	0.13 U	0.68	0.14	0.42	6.5	2.3	0.25 U	7.3 U	3.6 U	3.6 U	7.3 U	0.90 U	73 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	0.047 J	0.046 J	0.19	0.1 J	0.37	0.46	0.15 U	0.16	0.15 U	0.67	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachlorobutadiene	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	22 U	22 U	22 U	22 U	5.4 U	220 U	11 U	11 U	5.3 U	11 U
Hexane	0.19 J	0.39 J	5.1	0.29 J	1 J	0.64 J	0.28 J	7.7	0.69 J	0.4 J	5	3.6 U	3.6 U	3.6 U	2.3	36 U	3.3	1.8 U	1.8 U	1.8 U
Isopropyl alcohol	0.61 J	3.4 U	0.65 J	0.44 J	2.7 J	0.68 J	3.4 U	0.88 J	0.76 J	0.52 J	190	5.1	4.6	5.0 U	4.6	290	24	57	35	2.5 U
m,p-Xylene	0.14 J	0.11 J	0.66	0.24 J	1.2	2	0.27 J	0.46	0.35	2.4	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	86 U	4.3 U	4.3 U	4.3 U	4.3 U
Methyl methacrylate	0.082 U	0.14 U	0.14 U		0.14 U		0.14 U		0.14 U	0.14 U										
Methylene chloride	0.54 J	0.47 J	0.44 J	0.47 J	0.48 J	0.54 J	0.43 J	3.5	1 J	0.26 J	7.8	7.0 U	9.6	7.0 U	12	720	21	15	7.0 U	25
Methyl-t-butyl ether	0.072 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	3.6 U	3.6 U	3.6 U	3.6 U	0.90 U	36 U	1.8 U	1.8 U	1.8 U	1.8 U
n-Heptane	0.054 J	0.14 U	0.19	0.14 U	0.39	0.49	0.14 U	0.24	0.14 U	0.47	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	0.054 J	0.046 J	0.25	0.11 J	0.40	0.59	0.15 U	0.17	0.12 J	0.67	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U
Propylene (Propene)	1.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.63 J	2.4 U	3.5 U	1.8 U	1.8 U	3.5 U	0.45 U	35 U	0.90 U	0.90 U	3.5 U	3.5 U
Styrene	0.085 U	0.15 U	0.15 U	0.15 U	0.12 J	0.15 U	0.15 U	0.15 U	0.15 U	0.46	4.2 U	17	4.2 U	4.2 U	1.7	42 U	2.2	2.1 U	2.1 U	2.1 U
Tetrachloroethene	0.071	0.09 J	0.22 J	0.29	0.35	0.61	0.24 U	0.41	0.24 U	0.24 U	210	310	190	97	8	68 U	21	25	19	8.9
Tetrahydrofuran	0.059 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U	16	110	69	140	2200	42000	61000	150000	94000	9700
Toluene	0.33	0.35	1.3	0.51	2.9	3.2	0.75	1.1	2.4	2.2	13	4.7	3.8 U	3.8 U	0.95 U	38 U	2.2	3.4	1.9 U	1.9 U
trans-1,2-Dichloroethene	0.04 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	26	6.1	4.0 U	4.7	1.0 U	40 U	2.6	2.8	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.045 U	0.16 U	0.064 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U
Trichloroethene	0.052 J	0.19 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	51000	20000	14000	8900	2400	3800	4400	2700	6800	1600
Trichlorofluoromethane	1.3	1.3	1.1	1.5	1.2	1.7	1.1	1.4	1.3	1.1	3500	200	120	67	16	56 U	27	41	2.8 U	53
Trichlorotrifluoroethane	0.57	0.63	0.49 J	0.65 J	0.57 J	0.6 J	0.51 J	0.47 J	0.55 J	0.46 J	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	76 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl acetate	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.6 J	2.5 U	2.5 U	15 U	3.6 U	3.6 U	15 U	0.90 U	150 U	1.8 U	1.8 U	7.1 U	3.6 U
Vinyl chloride	0.026 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	0.09 U	2.6 U	2.6 U	2.6 U	2.6 U	0.65 U	26 U	1.3 U	5.3	1.3 U	3

	Extraction Well - Eastern Small Retail Space																			
Parameter (ug/m^3)	EW-5- 032610 3/26/2010	EW-5- 070110 7/1/2010	EW-5- 091610 9/16/2010	EW-5- 120710 12/7/2010	EW-5- 021711 2/17/2011	EW-5- 060211 6/2/2011	EW-5 091511 9/15/2011	EW-5- 120811 12/8/2011	EW-5- 030812 3/8/2012	EW-5- 061412 6/14/2012	EW-5- 091312 9/13/2012	EW-5- 010313 1/3/2013	EW-5- 031513 3/15/2013	EW-5- 060713 6/7/2013	EW-5- 090613 9/6/2013	EW-5- 121313 12/13/2013	EW-5- 030714 3/7/2014	EW-5- 061314 6/13/2014	EW-5- 091214 9/12/2014	EW-5- 121914 12/19/2014
1,1,1-Trichloroethane	540	550	460	210	400	340	430	130	81	100	190	0.55 U	0.55 U	59	180	40	68	54	74	25
1,1,1,2-Tetrachloroethane							25 U		12 U	1.2 U	1.2 U	1.2 U		1.2 U	0.39 J	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U
1,1,2,2-Tetrachloroethane	6.8 U	3.4 U	6.8 U	1.4 U	1.4 U	6.9 U	14 U	3.4 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.32 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
1,1,2-Trichloroethane	5.4 U	2.7 U	5.4 U	1.1 U	1.1 U	5.5 U	11 U	2.7 U	2.7 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.26 U	0.55 U	0.55 U	0.55 U	1.1 U	0.55 U
1,1-Dichloroethane	50	53	42	29	34	33	44	16	11	12	21	0.40 U	0.40 U	6.4	20	4.8	7	7.4	9.3	4.2
1,1-Dichloroethene	18	21	15	13	15	11	14	5	4.5	4.5	6.9	0.40 U	0.40 U	1.7	4.7	1.5	1.8	2	2.4	1
1,2,4-Trichlorobenzene	15 U	3.7 U	7.4 U	1.5 U	1.5 U	7.4 U	30 U	7.4 U	15 U	1.5 U	1.5 U	1.5 U	1.5 U	0.74 U	0.35 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U
1,2,4-Trimethylbenzene	5.0 U	2.5 U	5.0 U	0.98 U	0.98 U	4.9 U	9.8 U	2.5 U	4.9 U	0.2	0.63	0.49 U	0.49 U	0.49 U	0.37	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U
1,2-Dibromoethane (EDB)	7.6 U	3.8 U	7.6 U	1.5 U	1.5 U	7.7 U	15 U	3.8 U	3.8 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.36 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U
1,2-Dichlorobenzene	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.28 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U
1,2-Dichloroethane	4.0 U	2.0 U	4.0 U	0.81 U	0.81 U	4.0 U	8.1 U	2.0 U	2.0 U	0.17	0.40 U	0.40 U	0.40 U	0.40 U	0.19 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U
1,2-Dichloropropane	4.6 U	2.3 U	4.6 U	0.92 U	0.92 U	4.6 U	9.2 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.22 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	7.0 U	3.5 U	7.0 U																	
1,3,5-Trimethylbenzene	5.0 U	2.5 U	5.0 U	0.98 U	0.98 U	4.9 U	9.8 U	2.5 U	4.9 U	0.49 U	0.19	0.49 U	0.49 U	0.49 U	0.23 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U
1,3-Butadiene	2.2 U	1.1 U	2.2 U	0.44 U	0.44 U	2.2 U	4.4 U	1.1 U	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.10 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U
1,3-Dichlorobenzene	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.28 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U
1,4-Dichlorobenzene	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.28 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U
1,4-Dioxane							7.2 U													
2-Butanone	18000	28000	15000	4000	7200 B	17000	13000	2700	1800	870	840	9.5	1.7	1900	31000	680	1200	2100	3800	260
2-Hexanone	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	82 U	8.2 U	2.0 U	4.1 U	0.43	0.41 U	0.41 U	0.41 U	0.41 U	0.49	0.41 U	0.53	0.41 U	0.82 U	0.41 U
4-Ethyltoluene	5.0 U	2.5 U	5.0 U	0.98 U	0.98 U	4.9 U	9.8 U	2.5 U	4.9 U	0.49 U	0.18	0.49 U	0.49 U	0.49 U	0.23 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U
4-Methyl-2-pentanone	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	4.1 U	8.2 U	2.0 U	4.1 U	0.27	0.34	0.41 U	0.41 U	0.41 U	0.56	0.41 U	0.41 U	0.46	0.82 U	0.41 U
Acetone	3200	6000	4500	2000 B	1800 B	2200 B	3400	710	400	440	670	11	8.5	610	6800	210	380	610	500	98
Benzene	5.5	8.2	5.0	4.2	4.5	4.2	6.4 U	2.8	2.0	1.1	3.7	0.5	0.5	1.0	7.1	2.4	3.8	3.0	2.7	3.4
Benzyl chloride	5.2 U	2.6 U	5.2 U	1.0 U	1.0 U	5.2 U	10 U	2.6 U	5.2 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.24 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Bromodichloromethane	6.6 U	3.3 U	6.6 U	1.3 U	1.3 U	6.7 U	13 U	3.4 U	3.4 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.31 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Bromoform	11 U	5.1 U	11 U	2.1 U	2.1 U	10 U	21 U	5.2 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48 U	1.0 U	1.0 U	1.0 U	2.1 U	1 U
Bromomethane	3.8 U	1.9 U	3.8 U	0.78 U	0.78 U	3.9 U	7.8 U	1.9 U	3.9 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.18 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U
Carbon disulfide	5.7	12	14	8	15	22	62 U	13	11	25	49	3.1 U	3.1 U	19	77	8.9	26	35	46	13
Carbon tetrachloride	6.2 U	3.1 U	6.2 U	1.3 U	1.3 U	6.3 U	13 U	1.2	3.1 U	0.4	0.38	0.63 U	0.39	0.63 U	0.47	0.63 U	0.63 U	0.63 U	0.63 U	0.33 J
Chlorobenzene	4.6 U	2.3 U	4.6 U	0.92 U	0.92 U	4.6 U	9.2 U	2.3 U	4.6 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.22 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
Chloroethane	3.5	3.6	5.5	3.1	3.4	2.6 U	7.5	1.3 U	2.6 U	2.9	5.3	0.26 U	0.26 U	1.5	4	0.86	1.9	1.9	1.6	0.95
Chloroform	4.8 U	2.4 U	4.8 U	1.1	1.2	4.9 U	9.8 U	1.1	2.4 U	0.98	1.1	0.49 U	0.49 U	0.59	1.6	0.49 U	0.59	0.76	0.82	0.53
Chloromethane	2.0 U	1.0 U	2.0 U	0.41 U	0.41 U	2.1 U	4.1 U	1.0 U	2.1 U	0.21 U	0.21 U	1	1.1	0.41 U	0.19 U	0.41 U	0.41 U	0.41 U	61	0.41 U
cis-1,2-Dichloroethene	32.00	43.00	31.00	17.00	27.00	27.00	35.00	11.00	6.90	8.60	14.00	0.40 U	0.40 U	4.30	13.00	1.90	4.10	4.30	5.00	1.40
cis-1,3-Dichloropropene	4.4 U	2.2 U	4.4 U	0.91 U	0.91 U	4.5 U	9.1 U	2.3 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.21 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Cyclohexane	3.4 U	1.7 U	3.4 U	0.69 U	0.69 U	3.4 U	6.9 U	1.7 U	3.4 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.16 U	0.34 U	0.34 U	0.34 U	0.69 U	0.34 U
Dibromochloromethane	8.6 U	4.3 U	8.6 U	1.7 U	1.7 U	8.5 U	17 U	4.3 U	4.3 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.40 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Dichlorodifluoromethane	5.0 U	2.5	5.0 U	2.4	3.7	4.9 U	9.9 U	2.8	4.9 U	2.9	2.6	2.5	2.5	2.1	1.7	2.5	2.1	2.0	2.3	2.5
Ethanol	28	68	89	23	19	24 J	150 U	12	290	14	100	9.9	3.5	13	3.5 U	39	43	32	15	33
Ethyl acetate	3.6 U	1.8 U	6.8	3.4	0.72 U	3.8	7.2 U	3.6	26	4.2	30	0.36 U	1.2	2.6	0.17 U	5.5	4.8	3.4	3.6	3.6
Ethylbenzene	4.4 U	2.2 U	4.4 U	0.87 U	0.87 U	4.3 U	8.7 U	2.2 U	4.3 U	0.12	0.69	0.43 U	0.43 U	0.43 U	0.41	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U
Hexachlorobutadiene	22 U	5.3 U	11 U	2.1 U	2.1 U	11 U	21 U	4.2	11 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.50 U	1.1 U	1.1 U	1.1 U	2.1 U	1.1 U
Hexane	3.6 U	1.8 U	7.1 U	1.4 U	0.70 U	3.5 U	280 U	70 U	9.4	4.3	2	0.74	2.2	14 U	6.6 U	14. U	14 U	14 U	28 U	14 U
Isopropyl alcohol	20	54	59	11	13	25 U	200 U	49 U	13	9.8 U	11	1.1	9.8 U	9.8 U	4.6 U	2.9	6	11	8.4 J	2 J
m,p-Xylene	8.6 U	4.3 U	8.6 U	1.7 U	1.7 U	8.7 U	17 U	4.3 U	5.4	0.87 U	1.9	0.75	0.87 U	0.87 U	1.2	0.87 U	0.56	0.81	1.7 U	0.24 J
Methyl methacrylate					0.82 U	4.1 U	8.2 U	2.0 U	4.1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.19 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U
Methylene chloride	14 U	8.6	7.0 U	1.4 U	2	6.9 U	69 U	4.2	15	11	2.5	1.8	6.9	1.1	3.4	1.1	0.79	0.99	1.6 J	3.5 U
Methyl-t-butyl ether	3.6 U	1.8 U	3.6 U	0.72 U	0.72 U	3.6 U	7.2 U	1.8 U	3.6 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.17 U	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U
n-Heptane	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	4.1 U	8.2 U	2.0 U	4.1 U	0.41 U	0.52	0.41 U	0.41 U	0.41 U	0.19 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U
o-Xylene	4.4 U	2.2 U	4.4 U	0.87 U	0.87 U	4.3 U	8.7 U	2.2 U	4.3 U	0.14	0.73	0.43 U	0.43 U	0.43 U	0.5	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U
Propylene (Propene)	6.9 U	8.7 U	6.9 U	1.4 U	3.4 U	17 U	140 U	4.1	15	6.9 U	3.9	6.9 U	6.9 U	6.9 U	2.3	6.9 U	6.9 U	6.9 U	14 U	6.9 U
Styrene	4.2 U	2.1 U	4.2 U	0.85 U	0.85 U	4.3 U	8.5 U	2.1 U	4.3 U	0.46	0.38	0.43 U	0.43 U	0.43 U	0.35	0.43 U	0.43 U	0.43 U	0.85 U	0.43 U
Tetrachloroethene	6.8 U	6.7	6.8 U	4	4100	6.8 U	14 U	3.5	3.4 U	0.92	2.1	0.68 U	0.68 U	0.71	1.7	0.68 U	0.69	1.2	1.2	0.46 J
Tetrahydrofuran	23000	37000	29000	8200	11000	30000	41000	11000	4500	7700	1000	0.29 U	0.29 U	2300	26000	1000	2900	2600	3300	460
Toluene	3.8 U	1.9 U	3.8 U	0.75 U	1.6	3.8 U	7.5 U	0.9	37	0.58	5.6	0.66	0.4	0.43	4.2	0.44	1.4	1.7	1.1	0.36 J
trans-1,2-Dichloroethene	4.0 U	2.0 U	4.0 U	0.79 U	0.79 U	4.0 U	7.9 U	2.0 U	2.0 U	0.40 U	0.18	0.40 U	0.40 U	0.40 U	0.19 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U
trans-1,3-Dichloropropene	4.4 U	2.2 U	4.4 U	0.91 U	0.91 U	4.5 U	9.1 U	2.3 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.21 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Trichloroethene	1100	1200	1100	410	660	790	940	290	170	220	400	0.54 U	0.54 U	150	770	80	190	160	200	66
Trichlorofluoromethane	7	7.4	5.8	5.1	5.8	5.6 U	11 U	3.4	5.6 U	4.9	8.5	2.4	1.4	2.9	4.6	3.6	2.7	3.4	4.1	3.1
Trichlorotrifluoroethane	7.6 U	3.8 U	7.6 U	1.5 U	1.5 U	7.7 U	15 U	3.8 U	3.8 U	0.77 U	0.57	0.77 U	0.61	0.77 U	0.64	0.77 U	0.77 U	0.77 U	1.5 U	0.63 J
Vinyl acetate	7.1 U	1.8 U	7.1 U	1.4 U	0.70 U	70 U	7.0 U	1.8 U	7.0 U	0.70 U	0.70 U	0.70 U	0.70 U	7.0 U	3.3 U	7.0 U	7.0 U	7 U	14 U	7 U
Vinyl chloride	3.4	3.1	4.3	2.4	3.7	3.3	6.2	1.3 U	1.3 U	2.9	4.7	0.26 U	0.26 U	0.26 U	3.5	0.26 U	1.1	1.3	0.26 U	0.28

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Extraction Well - Eastern Small Retail Space								Extraction Well - Center Small Retail Space																															
Parameter (ug/m^3)	EW-05-032715 3/27/2015	EW-5-061115 6/11/2015	EW-5-091615 9/16/2015	EW-5-121815 12/18/2015	EW-5-021816 2/18/2016	EW-5-080516 8/5/2016	EW-5-021017 2/10/2017	EW-5-090717 9/7/2017	EW-6-020309 2/3/2009	EW-6-021109 2/11/2009	EW-6-021809 2/18/2009	EW-6-022609 2/26/2009	EW-6-030609 3/6/2009	EW-6-041409 4/14/2009	EW-6-051509 5/15/2009	EW-6-061109 6/11/2009	EW-6-091709 9/17/2009	EW-6-122909 12/29/2009	EW-6-070110 7/1/2010	EW-6-091610 9/16/2010	EW-6-120710 12/7/2010	EW-6-021711 2/17/2011	EW-6-060211 6/2/2011	EW-6 091511 9/15/2011	EW-6-120811 12/8/2011	EW-6-030812 3/8/2012	EW-6-061412 6/14/2012	EW-6-0913412 9/13/2012	EW-6-010313 1/3/2013	EW-6-031513 3/15/2013	EW-6-060713 6/7/2013	EW-6-090613 9/6/2013	EW-6-121313 12/13/2013	EW-6-030714 3/7/2014	EW-6-061314 6/13/2014	EW-6-091214 9/12/2014	EW-6-121914 12/19/2014	EW-06-032715 3/27/2015	EW-6-061115 6/11/2015	EW-6-091615 9/16/2015
1,1,1-Trichloroethane	14	0.19 J	55	32	15	68	7.4	42	69000	32000	21000	16000	16000	5600	8200	5700	5400	1100	430	390	130	0.55 U	80	230	33	0.27 U	75	0.55 U	0.55 U	0.55 U	4.3	71	18	13	26	58	19	14	13	5.9
1,1,1,2-Tetrachloroethane	1.2 U	1.2 U	2.5 U		2.5 U		1.2 U	2.5 U																25 U		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.44 U	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	2.5 U
1,1,2,2-Tetrachloroethane	0.69 U	0.69 U	3.4 U	1.4 U	1.4 U	6.9 U	0.69 U	1.4 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	68 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	6.8 U	0.69 U	0.69 U	6.9 U	14 U	3.4 U	0.34 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.24 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U
1,1,2-Trichloroethane	0.55 U	0.55 U	2.7 U	1.1 U	1.1 U	5.5 U	0.55 U	1.1 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	54 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	5.4 U	0.55 U	0.55 U	5.5 U	11 U	2.7 U	0.27 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.19 U	0.55 U	0.55 U	0.55 U	1.1 U	0.55 U	0.55 U	0.55 U	1.1 U
1,1-Dichloroethane	2.9	0.4 U	6.9	4.4	2.8	7.5	1.8	6.2	5200	2500	2100	2200	1600	780	1200	1100	930	580	47	38	21	0.40 U	12	27	6.4	0.20 U	9.6	0.40 U	0.40 U	0.40 U	0.78	13	2.7	2.2	4.7	8.2	3.5	2.8	2.5	1.1
1,1-Dichloroethene	0.9	0.4 U	1.5 J	1.1	0.84	4 U	0.4	1.3	850	210	100	110	55	74	87	83	80	6.4	3.5	4.0 U	0.40 U	0.40 U	4.0 U	7.9 U	2.0 U	0.20 U	0.84	0.40 U	0.40 U	0.40 U	0.40 U	1.1	0.40 U	0.40 U	0.40 U	0.52	0.4 U	0.4 U	0.4 U	0.79 U
1,2,4-Trichlorobenzene	0.74 U	0.74 U	3.7 U	1.5 U	1.5 U	7.4 U	0.74 U	1.5 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	74 U	3.7 U	3.7 U	3.7 U	7.5 U	3.7 U	7.4 U	0.74 U	0.74 U	7.4 U	30 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.74 U	0.26 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	1.5 U
1,2,4-Trimethylbenzene	0.16 J	0.22 J	2.5 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	5.0 U	5.0 U	16	6.2	50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	0.49 U	0.49 U	4.9 U	9.8 U	2.5 U	0.49 U	0.26	0.6	0.49 U	0.49 U	0.49 U	0.59	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.2 J	0.24 J	0.98 U
1,2-Dibromoethane (EDB)	0.77 U	0.77 U	3.8 U	1.5 U	1.5 U	7.7 U	0.77 U	1.5 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	76 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	7.6 U	0.77 U	0.77 U	7.7 U	15 U	3.8 U	0.38 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.27 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	1.5 U
1,2-Dichlorobenzene	0.6 U	0.6 U	3 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U	0.60 U	0.60 U	6.0 U	12 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U
1,2-Dichloroethane	0.4 U	0.4 U	2 U	0.81 U	0.81 U	4 U	0.4 U	0.81 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U	0.40 U	4.0 U	8.1 U	2.0 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.14 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U
1,2-Dichloropropane	0.46 U	0.46 U	2.3 U	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	46 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	0.46 U	0.46 U	4.6 U	9.2 U	2.3 U	0.23 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U
1,2-Dichlorotetrafluoroethane				1.4 U		7 U			7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	70 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	7.0 U																				
1,3,5-Trimethylbenzene	0.49 U	0.11 J	2.5 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	5.0 U	5.0 U	7.3	5.0 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	0.49 U	0.49 U	4.9 U	9.8 U	2.5 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.3	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	0.98 U
1,3-Butadiene	0.22 U	0.22 U	1.1 U	0.44 U	0.44 U	2.2 U	0.22 U	0.44 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	22 U	1.1 U	1.1 U	2.3 U	1.1 U	1.1 U	2.2 U	0.22 U	0.22 U	2.2 U	4.4 U	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.078 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.44 U
1,3-Dichlorobenzene	0.6 U	0.6 U	3 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U	0.60 U	0.60 U	6.0 U	12 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U
1,4-Dichlorobenzene	0.6 U	0.6 U	3 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	60 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	6.0 U	0.60 U	0.60 U	6.0 U	12 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U
1,4-Dioxane				7.2 U		36 U																		7.2 U																
2-Butanone	91	9.1 J	1700 E	410	130	4800	29	4500	120	280	300	130	97	160	37	65	8.7	23	1800	110	20	1.9 B	59 U	240 U	13	2.1	200	3.7	0.84	1.9	120	95	4	4	6.8	11 J	5.2 J	11 J	13	7 J
2-Hexanone	0.16 J	0.34 J	2 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.41 U	0.41 U	82 U	8.2 U	2.0 U	0.41 U	0.7	0.52	0.41 U	0.41 U	0.41 U	0.38	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.32 J	0.18 J	0.82 U
4-Ethyltoluene	0.49 U	0.49 U	2.5 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	0.49 U	0.49 U	4.9 U	9.8 U	2.5 U	0.49 U	0.49 U	0.28	0.49 U	0.49 U	0.49 U	0.17 U	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.12 J	0.98 U
4-Methyl-2-pentanone	0.41 U	0.41 U	2 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.41 U	0.41 U	4.1 U	8.2 U	2.0 U	0.41 U	0.35	0.41 U	0.41 U	0.41 U	0.41 U	0.14 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.13 J	0.41 U	0.82 U
Acetone	49	21	550	120	58	570	11	700	580	64	81	33	22	410	16	20	4.8 U	27	490	70	15 B	15 B	48 U	190 U	21	9.9	36	25	6.4	6.3	42	35	17	16	27	36	35	39	35	44
Benzene	3.1	0.4	2.9	5.0	2.8	4.0	0.4	2.7	5.2	5.2	4.1	3.2 U	3.2 U	32 U	1.7	1.6 U	1.6 U	1.6 U	1.6 U	3.2 U	0.9	1.1	3.2 U	6.4 U	1.6 U	0.3	1.2	0.8	0.4	0.4	0.32 U	1.2	0.4	1.0	0.7	1.1	0.7	0.7	0.6	0.56 J
Benzyl chloride	0.52 U	0.52 U	2.6 U	1 U	1 U	5.2 U	0.52 U	1 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	52 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	5.2 U	0.52 U	0.52 U	5.2 U	10 U	2.6 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.18 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1 U
Bromodichloromethane	0.67 U	0.67 U	3.4 U	1.3 U	1.3 U	6.7 U	0.67 U	1.3 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	66 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	6.6 U	0.67 U	0.67 U	6.7 U	13 U	3.4 U	0.34 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.24 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	1.3 U
Bromoform	1 U	1 U	5.2 U	2.1 U	2.1 U	10 U	1 U	2.1 U	11 U	11 U	11 U	11 U	11 U	110 U	5.1 U	5.1 U	5.1 U	5.1 U	5.1 U	11 U	1.0 U	1.0 U	10 U	21 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	1.0 U	10 U	1.0 U	2.1 U	1 U	1 U	1 U	2.1 U
Bromomethane	0.39 U	0.39 U	1.9 U	0.78 U	0.78 U	3.9 U	0.39 U	0.78 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	38 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.8 U	0.39 U	0.39 U	3.9 U	7.8 U	1.9 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.14	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.78 U
Carbon disulfide	7.4	0.98 J	56	19	6.1 J	100	1.2 J	120	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	180	1.6 U	1.6 U	1.6 U	1.6 U	8	12	0.66	0.31 U	11	62 U	7.1	3.1 U	29	3.1 U	3.1 U	3.1 U	0.35	74	5.6	6.3	31	71	8	15	14	19
Carbon tetrachloride	0.31 J	0.33 J	3.1 U	1.3 U	1.3 U	6.3 U	0.63 U	1.3 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	62 U	3.1 U	3.1 U	3.1 U	3.1 U	3.1 U	6.2 U	0.63 U	0.63 U	6.3 U	13 U	3.1 U	0.39	0.34	0.4	0.63 U	0.23	0.63 U	0.48	0.63 U	0.63 U	0.63 U	0.63 U	0.35 J	0.3 J	0.36 J	0.4 J
Chlorobenzene	0.46 U	0.46 U	2.3 U	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	46 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	0.46 U	0.46 U	4.6 U	9.2 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U
Chloroethane	0.26 U	0.26 U	1.3 U	0.53 U	0.53 U	2.6 U	0.26 U	1.3	140	50	34	18	13	26 U	13	14	11	4	1.3 U	2.8	0.26 U	0.26 U	2.6 U	5.3 U	1.3 U	0.26 U	1.4	0.26 U	0.26 U	0.26 U	0.26 U	1.7	0.26 U	0.26 U	0.67	1.1	0.26 U	0.26 U	0.26 U	0.53 U
Chloroform	0.18 J	0.17 J	0.63 J	0.98 U	0.98 U	4.9 U	0.49 U	1	42	24	19	29	21	50	14	12	12	7.2	3.7	4.8 U	2.4	0.49 U	4.9 U	9.8 U	1	0.36	0.92	0.21	0.49 U	0.49 U	0.49 U	1.7	0.49 U	0.49 U	0.64	1	0.63	0.37 J	0.45 J	0.39 J
Chloromethane	0.41 U	0.41 U	2.1 U	83	0.83 U	4.1 U	0.41 U	76	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	34	1.0 U	1.0 U	1.0 U	1.0 U	38	40	0.21 U	1	16	45	2.9	1.5	7.8	1.3	1.1	1.2	1.3	35	3.4	1.8	3.3	4.4	1.4	2.4	3.6	3.3
cis-1,2-Dichloroethene	0.78	0.4 U	4.00	1.30	0.79 U	4 U	0.4 U	2.80	700.00	360.00	220.00	250.00	150.00	120.00	190.00	170.00	130.00	36.00	11.00	7.90	2.30	0.40 U	4.0 U	7.9 U	0.83	0.20 U	2.80	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.71	1.10	0.21 J	0.29 J	0.25 J	0.79 U
cis-1,3-Dichloropropene	0.45 U	0.45 U	2.3 U	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	0.45 U	0.45 U	4.5 U	9.1 U	2.3 U	0.23 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U
Cyclohexane	0.34 U	0.34 U	1.7 U	0.69 U	0.69 U	3.4 U	0.34 U	0.69 U	3.4 U	5.3	3.4 U	3.4 U	3.4 U	34 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	0.34 U	0.34 U	3.4 U	6.9 U	1.7 U	0.34 U	0.34 U	0.49	0.34 U	0.34 U	0.34 U	0.12 U	0.34 U	0.34 U	0.34 U	0.69 U	0.34 U	0.34 U	0.34 U	0.69 U
Dibromochloromethane	0.85 U	0.85 U	4.3 U	1.7 U	1.7 U	8.5 U	0.85 U	1.7 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	86 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.6 U	0.85 U	0.85 U	8.5 U	17 U	4.3 U	0.43 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.30 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U
Dichlorodifluoromethane	2.0	3.3	2.2 J	3.1	2.4	4.9 U	1.5	2.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	3.6	3.9	2.7	2.5 U	2.5 U	5.0 U	2.3	3.6	4.9 U	9.9 U	3.0	2.2	2.9	2.9	2.6	2.5	2.3	1.3	2.6	2.3	2.0	2.3	2.6	1.8	2.7	2.7
Ethanol	31	15	17 J	21	28	75 U	6.7 J	13 J	360	38	73	38	25	110	18	14	6.7	18	15	19 U	4.6	11	38 U	150 U	38 U	29	5.8	68	8.6	3.5	13	14	4.3	7.5 U	6.9	15 U	3.5 J	5.6 J	27	28
Ethyl acetate	2.6	0.36 U	1.8 U	2.8	0.72 U	3.6 U	2.5	5.2	7.3 U	3.6 U	3.6 U	7.3 U	3.6 U	73 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	0.36 U	0.36 U	3.6 U	7.2 U	1.8 U	0.52	1.2	24	0.36 U	0.36 U	0.94	0.13 U	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.37	0.36 U	0.72 U
Ethylbenzene	0.16 J	0.15 J	2.2 U	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	0.43 U	0.43 U	4.3 U	8.7 U	2.2 U	0.43 U	0.18	0.66	0.43 U	0.43 U	0.43 U	0.38	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.34 J	0.43 U	0.87 U
Hexachlorobutadiene	1.1 U	1.1 U	5.3 U	2.1 U	2.1 U	11 U	1.1 U	2.1 U	22 U	22 U	22 U	22 U	22 U	220 U	11 U	11 U	5.3 U	11 U	5.3 U	11 U	1.1 U	1.1 U	11 U	21 U	5.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37 U	1.1 U	1.1 U	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	2.1 U
Hexane	7.4 J	1.4 J	70 U	28 U	28 U	140 U	1.4 J	28 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	36 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	7.1 U	0.7 U	1.3	3.5 U	280 U	70 U	1.4	1.2	7.6	14. U	0.6	1.6	0.89	14. U	14 U	14 U	28 U	14 U	7.3 J	14 U	28 U
Isopropyl alcohol	9.8 J	9.8 U	49 U	3 J	20 U	14 J	2 J	20 U	210	18	33	15	10	230	8.2	11	20	2.5 U	1.2 U	9.4	0.49 U	2.9	25 U	200 U	49 U	1.3	9.8 U	7.6	0.69	9.8 U	9.8 U	3.4 U	9.8 U	9.8 U	1.1	5.9 J	9.8 U	1.8 J	5 J	4.4 J
m,p-Xylene	0.39 J	0.54 J	4.3 U	1.3 J	1.7 U	8.7 U	0.87 U	1.7 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	120	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.6 U	0.87 U	0.94	8.7 U	17 U	4.3 U	0.87 U	0.24	1.9	0.87 U	0.87 U	0.87 U	0.76	0.87 U	0.87 U	0.52	1.7 U	0.87 U	0.35 J	0.3 J	1.7 U
Methyl methacrylate	0.41 U		2 U		0.82 U		0.41 U	0.82 U														0.41 U	4.1 U	8.2 U	2.0 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.14 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U		0.82 U
Methylene chloride	0.44 J	1.9 J	17 U	6.9 U	6.9 U	35 U	1.3 J	6.9 U	7.0 U	7.0 U	7.5	7.0 U	7.0 U	780	12	15	7.0 U	27	10	7.0 U	1.3	2.8	6.9 U	69 U	3.6	4.8	2.5	14	2.1	1.4	3.8	0.84	0.99	0.89	1.2	1.6 J	3.5 U	0.43 J	3.5 U	6.9 U
Methyl-t-butyl ether	0.36 U	0.36 U	1.8 U	0.72 U	0.72 U	3.6 U	0.36 U	0.72 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	36 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.6 U	0.36 U	0.36 U	3.6 U	7.2 U	1.8 U	0.36 U	0.36 U	0.13	0.36 U	0.36 U	0.36 U	0.13 U	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.36 U	0.36 U	0.72 U
n-Heptane	0.41 U	0.41 U	2 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.41 U	0.41 U	4.1 U	8.2 U	2.0 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.45	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.82 U
o-Xylene	0.15 J	0.25 J	2.2 U	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	0.43 U	0.43 U	4.3 U	8.7 U	2.2 U	0.43 U	0.16	0.73	0.43 U	0.43 U	0.43 U	0.37	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.16 J	0.43 U	0.87 U
Propylene (Propene)	6.9 U	6.9 U	34 U	14 U	14 U	69 U	6.9 U	14 U	3.5 U	1.8 U	1.8 U	3.5 U	1.8 U	35 U	0.90 U	0.90 U	3.5 U	3.5 U	8.7 U	6.9 U	0.69 U	1.7 U	17 U	140 U	3.8	6.9 U	2.8	6.9 U	6.9 U	6.9 U	6.9 U	2.4 U	6.9 U	6.9 U	1	2.1 J	0.84 J	0.91 J	6.9 U	14 U
Styrene	0.43 U	0.43 U	2.1 U	0.85 U	0.85 U	4.3 U	0.43 U	0.85 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	42 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	0.43 U	0.43 U	4.3 U	8.5 U	2.1 U	0.43 U	0.2	0.35	0.43 U	0.43 U	0.43 U	0.28	0.43 U	0.43 U	0.43 U	0.85 U	0.43 U	0.43 U	0.094 J	0.85 U
Tetrachloroethene	0.68 U	0.24 J	5.6	1.4 U	1.4 U	6.8 U	0.68 U	1.4 U	330	290	130	290	190	300	190	210	250	68	34	23	8.1	1.2	6.8 U	17	2.4	0.76	4.6	0.88	0.68 U	0.68 U	0.68 U	8.3	1.5	1.1	3.3	5.9	3.1	1.4	1.1	1.4 U
Tetrahydrofuran	320	1.9	2900 E	1100	250	4900	13	5300	75	480	260	730	570	130	110	87	9.1	31	42000	53000	480	0.29 U	13000	32000	3900	3.7	8100	0.29 U	0.29 U	0.27	58	35000	650	54	1200	4100	260	680	600	170
Toluene	0.55	0.83	0.72 J	0.95	0.86	3.8 U	0.43	0.83	12	3.8 U	3.8 U	3.8 U	3.8 U	38 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	3.8 U	0.38 U	2.4	3.8 U	9.8	1.9 U	0.36	0.7	5.3	0.46	0.31	0.5	2.5	0.38 U	1	0.97	0.68 J	0.25 J	0.49	0.66	0.92
trans-1,2-Dichloroethene	0.4 U	0.4 U	2 U	0.79 U	0.79 U	4 U	0.4 U	0.79 U	12	6.3	4.2	6.4	4.0 U	40 U	2.6	2.7	2	2.1	2.0 U	4.0 U	0.4 U	0.40 U	4.0 U	7.9 U	2.0 U	0.20 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.14 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U
trans-1,3-Dichloropropene	0.45 U	0.45 U	2.3 U	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	44 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	0.45 U	0.45 U	4.5 U	9.1 U	2.3 U	0.23 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U
Trichloroethene	38	0.54 U	160	94	37	210	16	150	12000	6900	4200	4400	4800	3900	5400	4700	6100	2000	730	650	250	0.54 U	190	390	66	0.27 U	180	0.21	0.54 U	0.54 U	5.7	150	36	28	60	110	44	33	25	2.4
Trichlorofluoromethane	1.9 J	1.7 J	3.1 J	4.1 J	2 J	22 U	2.2	2.8 J	2300	870	630	350	250	150	230	440	700	320	6.7	25	28	1.7	11	34	11	1	15	2	1.9	1.3	4.7	6.2	12	6.9	14	21	15	8.6	12	4.4 J
Trichlorotrifluoroethane	0.44 J	0.64 J	15 U	6.1 U	6.1 U	31 U	3.1 U	6.1 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	76 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	7.6 U	0.77 U	0.86	7.7 U	15 U	3.8 U	0.38 U	0.77 U	0.6	0.77 U	0.63	0.77 U	0.72	0.77 U	0.77 U	0.77 U	1.5 U	0.63 J	0.41 J	0.58 J	0.61 J
Vinyl acetate	7 U	7 U	35 U	14 U	14 U	70 U	7 U	14 U	15 U	3.6 U	3.6 U	15 U	3.6 U	150 U	1.8 U	1.8 U	7.1 U	3.6 U	1.8 U	7.1 U	0.7 U	0.35 U	70 U	7.0 U	1.8 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	7.0 U	2.5 U	7.0 U	7 0 U	7.0 U	2.1 J	7 U	7 U	7 U	14 U
Vinyl chloride	0.15 J	0.26 U	0.87 J	0.51 U	0.51 U	2.6 U	0.26 U	1.2	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	26 U	1.3 U	1.3 U	1.3 U	1.3 U	1.7	2.9	0.26 U	0.26 U	2.6 U	5.1 U	1.3 U	0.13 U	1.5	0.26 U	0.26 U	0.26 U	0.26 U	2.2	0.26 U	0.26 U	0.65	1.3	0.26 U	0.26 U	0.26 U	0.37 J

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Extraction Well - Center Small Retail Space					Extraction Well - Western Small Retail Space																																	
Parameter (ug/m^3)	EW-6-121815 12/18/2015	EW-6-021816 2/18/2016	EW-6-080516 8/5/2016	EW-6-021017 2/10/2017	EW-6-090717 9/7/2017	EW-7-020309 2/3/2009	EW-7-021109 2/11/2009	EW-7-021809 2/18/2009	EW-7-022609 2/26/2009	EW-7-030609 3/6/2009	EW-7-041409 4/14/2009	EW-7-051509 5/15/2009	EW-7-061109 6/11/2009	EW-7-091709 9/17/2009	EW-7-122909 12/29/2009	EW-7-032610 3/26/2010	EW-7-070110 7/1/2010	EW-7-091610 9/16/2010	EW-7-120710 12/7/2010	EW-7-021711 2/17/2011	EW-7-060211 6/2/2011	EW-7 091511 9/15/2011	EW-7-120811 12/8/2011	EW-7-030812 3/8/2012	EW-7-061412 6/14/2012	EW-7-091312 9/13/2012	EW-7-010313 1/3/2013	EW-7-031513 3/15/2013	EW-7-060713 6/7/2013	EW-7-090613 9/6/2013	EW-7-100313 10/3/2013	EW-7-121313 12/13/2013	EW-7-030714 3/7/2014	EW-7-061314 6/13/2014	EW-7-091214 9/12/2014	EW-7-121914 12/19/2014	EW-07-032715 3/27/2015	EW-7-061115 6/11/2015	EW-7-091615 9/16/2015
1,1,1-Trichloroethane	27	10	180	4	3.9	5600	8500	7800	8200	8100	1600	3600	2600	1400	340	51	250	290	160	110	5.5 U	110	66	11	47	95	0.55 U	3.1	15	76	52	41	30	15	52	6.1	25	14	63
1,1,1,2-Tetrachloroethane		2.5 U		1.2 U	2.5 U																	2.5 U		12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.44 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	2.5 U
1,1,2,2-Tetrachloroethane	1.4 U	1.4 U	6.9 U	0.69 U	1.4 U	6.8 U	1.4 U	1.7 U	1.7 U	1.7 U	6.8 U	3.4 U	3.4 U	3.4 U	3.4 U	0.68 U	0.68 U	0.68 U	0.69 U	0.69 U	6.9 U	1.4 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.24 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	1.4 U
1,1,2-Trichloroethane	1.1 U	1.1 U	5.5 U	0.55 U	1.1 U	5.4 U	1.1 U	1.4 U	1.4 U	1.4 U	5.4 U	2.7 U	2.7 U	2.7 U	2.7 U	0.54 U	0.54 U	0.54 U	0.55 U	0.55 U	5.5 U	1.1 U	0.55 U	2.7 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.19 U	0.55 U	0.55 U	0.55 U	0.55 U	1.1 U	0.55 U	0.55 U	0.55 U	1.1 U
1,1-Dichloroethane	3.1	1.7	24	0.88	0.58 J	1700	1800	1600	2100	1700	590	1000	1100	970	470	85	320	340	220	150	45	150	80	6.4	42	100	0.40 U	2	7	51	25	12	6.9	5.4	20	1.8	4.9	3.7	16
1,1-Dichloroethene	0.79 U	0.79 U	4 U	0.4 U	0.79 U	14	15	8.5	9.4	6.6	4.0 U	4.2	4.2	4.5	2.0 U	0.40 U	0.81	0.94	0.63	0.40 U	4.0 U	0.79 U	0.13	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.14 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.79 U
1,2,4-Trichlorobenzene	1.5 U	1.5 U	7.4 U	0.74 U	1.5 U	7.4 U	1.5 U	1.9 U	1.9 U	1.9 U	7.4 U	3.7 U	3.7 U	3.7 U	7.5 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	7.4 U	3.0 U	1.5 U	15 U	1.5 U	1.5 U	1.5 U	1.5 U	0.74 U	0.26 U	0.74 U	0.74 U	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	1.5 U
1,2,4-Trimethylbenzene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5	0.50 U	0.50 U	0.49 U	0.49 U	4.9 U	0.98 U	0.32	4.9 U	0.32	0.97	0.92	0.3	0.49 U	0.5	0.77	0.58	0.49 U	0.49 U	0.98 U	0.49 U	1.4	0.44 J	0.98 U
1,2-Dibromoethane (EDB)	1.5 U	1.5 U	7.7 U	0.77 U	1.5 U	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U	3.8 U	3.8 U	3.8 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	7.7 U	1.5 U	0.77 U	3.8 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.27 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	1.5 U
1,2-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	6.0 U	1.2 U	0.60 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U
1,2-Dichloroethane	0.81 U	0.81 U	4 U	0.4 U	0.81 U	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	4.0 U	0.81 U	0.40 U	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.14 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.16 J	0.81 U
1,2-Dichloropropane	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	0.92 U	0.46 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U
1,2-Dichlorotetrafluoroethane	1.4 U		7 U			7.0 U	1.4 U	1.8 U	1.8 U	1.8 U	7.0 U	3.5 U	3.5 U	3.5 U	3.5 U	0.70 U	0.70 U	0.70 U																					
1,3,5-Trimethylbenzene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	1.1	0.50 U	0.50 U	0.49 U	0.49 U	4.9 U	0.98 U	0.49 U	4.9 U	0.49 U	0.5	0.49 U	0.49 U	0.49 U	0.24	0.32	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.69	0.23 J	0.98 U
1,3-Butadiene	0.44 U	0.44 U	2.2 U	0.22 U	0.44 U	2.2 U	0.44 U	0.55 U	0.55 U	0.55 U	2.2 U	1.1 U	1.1 U	2.3 U	1.1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	2.2 U	0.44 U	0.22 U	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.078 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.44 U
1,3-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	6.0 U	1.2 U	0.60 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U
1,4-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	6.0 U	1.2 U	0.60 U	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.17 J	1.2 U
1,4-Dioxane	7.2 U		36 U																			0.72 U																	
2-Butanone	2.2 J	6.1 J	79 J	3.1 J	120	8.7	12	7.3	8.5	5.5	4.5	7.1	16	4.9	3.5	31	3.8	1.8	4.1	5.3 B	59 U	24 U	6.2	100	14	3.6	18	210	99	12	8.5	5.9	3.8	9.3	7.2 J	35	9.7 J	8.3 J	5 J
2-Hexanone	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.40 U	1	0.40 U	0.41 U	0.41 U	82 U	0.82 U	0.14	4.1 U	0.28	0.64	0.41 U	0.39	0.41 U	0.51	0.41 U	0.41 U	0.41 U	0.49	0.82 U	0.41 U	1	0.38 J	0.82 U
4-Ethyltoluene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	0.50 U	0.50 U	0.50 U	0.49 U	0.49 U	4.9 U	0.98 U	0.49 U	4.9 U	0.49 U	0.21	0.49 U	0.49 U	0.49 U	0.17 U	0.27	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.33 J	0.12 J	0.98 U
4-Methyl-2-pentanone	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.40 U	0.40 U	0.40 U	0.41 U	0.41 U	4.1 U	0.82 U	0.13	4.1 U	1.6	0.31	0.55	0.41 U	0.41 U	0.14 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.46	0.41 U	0.82 U
Acetone	17 J	33	210	25	26	580	38	58	30	24	15	24	24	7.9	49	26	25	12	42 B	35 B	48 U	23	12	46	31	17	23	55	28	24	35	14	6.9	19	18 J	9.4 J	13	7.4 J	8.2 J
Benzene	0.64 U	0.64 U	9.6	1.3	0.46 J	3.2 U	3.9	4.5	1.9	2.3	3.2 U	2.6	2.8	3.0	2.2	1.5	1.7	2.1	1.4	1.6	3.2 U	2.5	1.6	3.2 U	1.5	1.2	0.9	0.5	0.6	1.9	1.9	0.9	1.3	1.1	0.59 J	0.5	2.1	2.3	2.3
Benzyl chloride	1 U	1 U	5.2 U	0.52 U	1 U	5.2 U	1.1 U	1.3 U	1.3 U	1.3 U	5.2 U	2.6 U	2.6 U	2.6 U	2.6 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	5.2 U	1.0 U	0.52 U	5.2 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.18 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1 U
Bromodichloromethane	1.3 U	1.3 U	6.7 U	0.67 U	1.3 U	6.6 U	1.4 U	1.7 U	1.7 U	1.7 U	6.6 U	3.3 U	3.3 U	3.3 U	3.3 U	0.66 U	0.66 U	0.66 U	0.67 U	0.67 U	6.7 U	1.3 U	0.67 U	3.4 U	3.2	0.67 U	0.67 U	0.67 U	0.67 U	0.24 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	1.3 U
Bromoform	2.1 U	2.1 U	10 U	1 U	2.1 U	11 U	2.1 U	2.6 U	2.6 U	2.6 U	11 U	5.1 U	5.1 U	5.1 U	5.1 U	1.1 U	1.1 U	1.1 U	1.0 U	1.0 U	10 U	2.1 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1 U	1 U	1 U	2.1 U
Bromomethane	0.78 U	0.78 U	3.9 U	0.39 U	0.78 U	3.8 U	0.76 U	0.95 U	0.95 U	0.95 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U	0.38 U	0.38 U	0.38 U	0.39 U	0.39 U	3.9 U	0.78 U	0.39 U	3.9 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.14 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.78 U
Carbon disulfide	6.2 U	6 J	420	3.6	2.3 J	5.7	3.4	2.7	3.7	3.3	3.2 U	3.2	2.7	2.1	1.6 U	1.5	0.93	0.9	0.78	0.31 U	3.1 U	6.2 U	3.1 U	31 U	0.41	3.1 U	3.1 U	0.57	7.4	0.42	3.1 U	4.6	7.4	12	6.2 U	3.7	10	16	6.2 U
Carbon tetrachloride	1.3 U	1.3 U	6.3 U	0.63 U	1.3 U	6.2 U	1.3 U	1.6 U	1.6 U	1.6 U	6.2 U	3.1 U	3.1 U	3.1 U	3.1 U	0.62 U	0.62 U	0.62 U	0.63 U	0.63 U	6.3 U	1.3 U	0.34	3.1 U	0.3	0.33	0.78	0.47	0.63 U	0.38	0.4	0.63 U	0.63 U	0.63 U	0.63 U	0.36 J	0.21 J	0.33 J	0.38 J
Chlorobenzene	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	0.92 U	0.46 U	4.6 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U
Chloroethane	0.53 U	0.53 U	2.6 U	0.26 U	1.1 U	170	150	88	41	33	7.1	9.6	10	8.1	6.5	1.6	2.2	3.6	2	0.26 U	2.6 U	1.9	0.26 U	2.6 U	0.82	0.26 U	0.26 U	0.26 U	0.92	0.093 U	0.61	0.63	1.6	1.4	0.53 U	0.26 U	0.97	1.3	0.45 J
Chloroform	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	4.8 U	1	1.2 U	1.3	1.2 U	4.8 U	2.7	2.6	4.6	2.7	1.1	4.2	4.4	3.9	3	4.9 U	5	3.8	2.4 U	3.1	4.1	0.49 U	0.36	2	6.6	2.7	2.6	2	2.4	3.8	0.91	2.1	2.6	4.1
Chloromethane	1.2	1.4	38	1.4	3.5	2.0 U	0.40 U	0.50 U	0.50 U	0.50 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.21 U	0.21 U	2.1 U	0.41 U	0.21 U	2.1 U	0.21 U	0.21 U	1.4	0.21 U	0.41 U	0.14 U	0.41 U	0.41 U	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.83 U
cis-1,2-Dichloroethene	0.79 U	0.79 U	4 U	0.4 U	0.79 U	1100.00	1300.00	1200.00	1700.00	1200.00	520.00	1100.00	1200.00	1300.00	680.00	120.00	660.00	490.00	350.00	250.00	65.00	210.00	99.00	5.10	53.00	120.00	0.40 U	1.40	5.10	54.00	24.00	6.00	5.00	4.70	18.00	0.99	3.10	2.5	9.10
cis-1,3-Dichloropropene	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	0.44 U	0.44 U	0.44 U	0.45 U	0.45 U	4.5 U	0.91 U	0.45 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U
Cyclohexane	0.69 U	0.69 U	3.4 U	0.34 U	0.69 U	3.4 U	5.6	5	3.7	2.1	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	0.34 U	0.34 U	0.41	0.34 U	0.34 U	3.4 U	0.69 U	0.34 U	3.4 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.12 U	0.34 U	0.34 U	0.34 U	0.34 U	0.69 U	0.34 U	0.34 U	0.34 U	0.69 U
Dibromochloromethane	1.7 U	1.7 U	8.5 U	0.85 U	1.7 U	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 U	4.3 U	4.3 U	4.3 U	0.86 U	0.86 U	0.86 U	0.85 U	0.85 U	8.5 U	1.7 U	0.85 U	4.3 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.30 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U
Dichlorodifluoromethane	3.1	2.5	5.5	1.4	2.2	5.0 U	2.5	3.2	770.0	2.6	5.0 U	2.9	3.3	2.5 U	2.5 U	1.5	2.2	1.5	2.1	0.49 U	4.9 U	2.7	2.6	4.9 U	3.0	0.49 U	2.7	2.5	2.0	1.5	0.49 U	2.4	2.0	1.9	2.5	2.6	1.5	2.3	2.9
Ethanol	7.2 J	15 U	75 U	24	15	350	26	29	17	15	3.8 U	19	18	12	18	37	31	1.9 U	1.9 U	18	38 U	22	23	160	31	140	1200	27	22	14	30	12	13	32	18	11	7.5 U	42	93
Ethyl acetate	0.72 U	0.72 U	9.4	140	5.9	7.3 U	0.72 U	0.90 U	1.9 U	0.90 U	7.3 U	1.8 U	1.8 U	1.8 U	1.8 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6 U	0.72 U	0.36 U	11	0.63	0.36 U	0.36 U	3	3.6	0.13 U	0.36 U	0.94	0.36 U	0.36 U	0.72 U	1.7	29	0.36 U	0.72 U
Ethylbenzene	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	0.57	0.44 U	0.44 U	0.43 U	0.43 U	4.3 U	0.87 U	0.26	4.3 U	0.21	0.47	0.44	0.13	0.43 U	0.44	0.56	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	1.2	0.23 J	0.87 U
Hexachlorobutadiene	2.1 U	2.1 U	11 U	1.1 U	2.1 U	22 U	4.3 U	5.4 U	5.4 U	5.4 U	22 U	11 U	11 U	5.3 U	11 U	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	2.1 U	1.1 U	11 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37 U	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	2.1 U
Hexane	28 U	28 U	16 J	5.3 J	28 U	10	10	7.6	5.5	3.1	3.6 U	4	2.1	1.8 U	1.8 U	0.36 U	0.97	0.71 U	0.87	0.35 U	3.5 U	28 U	14 U	4	0.55	14 U	1.5	3.5	0.78	0.9	0.9	14. U	14 U	14 U	28 U	14 U	8.1 J	14 U	28 U
Isopropyl alcohol	20 U	20 U	11 J	4.5 J	3.3 J	210	18	21	12	8.5	5.0 U	12	17	2.5 U	2.5 U	80	2.2	2.6	2.8	0.25 U	25 U	30	9.8 U	98 U	14	9.8 U	12	9.8 U	9.8 U	3.4 U	17	13	9.8 U	1.8	20 U	4.8 J	12	6.6 J	22
m,p-Xylene	1.7 U	1.7 U	8.7 U	0.87 U	1.7 U	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 U	4.3 U	4.3 U	4.3 U	1.4	0.93	1	0.87 U	0.87 U	8.7 U	1.7 U	0.82	8.7 U	0.45	1.3	1.5	0.33	0.5	1	1.5	0.87 U	0.49	0.9	1.7 U	0.26 J	0.68 J	0.5 J	1.7 U
Methyl methacrylate		0.82 U		0.41 U	0.82 U															0.41 U	4.1 U	0.82 U	0.41 U	4.1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.14 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U		0.82 U
Methylene chloride	6.9 U	6.9 U	24 J	4.4	1.2 J	9.3	2.6	8	1.8	1.8 U	20	29	16	7.0 U	27	1.4 U	2.4	0.81	1.9	2.4	6.9 U	6.9 U	1.5	33	2.1	5.4	5.6	10	1.5	1.7	1.7	1.1	0.82	0.85	1.3 J	3.5 U	0.49 J	3.5 U	6.9 U
Methyl-t-butyl ether	0.72 U	0.72 U	3.6 U	0.36 U	0.72 U	3.6 U	3.5	2.9	4.9	3.1	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	3.6 U	0.72 U	0.36 U	3.6 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.13 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.36 U	0.36 U	0.72 U
n-Heptane	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	4.0 U	1.4	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.40 U	0.40 U	0.40 U	0.41 U	0.41 U	4.1 U	0.82 U	0.22	4.1 U	0.49	0.75	0.41 U	0.41 U	0.41 U	0.59	1.1	0.41 U	0.44	2.2	0.57 J	4.4	0.43	0.15 J	0.82 U
o-Xylene	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	0.65	0.44 U	0.44 U	0.43 U	0.43 U	4.3 U	0.87 U	0.38	4.3 U	0.18	0.52	0.51	0.15	0.43 U	0.4	0.73	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.57	0.22 J	0.87 U
Propylene (Propene)	14 U	14 U	11 J	1.3 J	14 U	3.5 U	160	110	0.87 U	0.45 U	3.5 U	0.90 U	0.90 U	3.5 U	3.5 U	0.69 U	1.8 U	0.69 U	0.69 U	1.7 U	17 U	14 U	6.9 U	13	6.9 U	6.9 U	6.9 U	6.9 U	6.9 U	2.4 U	6.9 U	6.9 U	6.9 U	1.1	14 U	6.9 U	0.96 J	1.6 J	1.3 J
Styrene	0.85 U	0.85 U	4.3 U	0.43 U	0.85 U	4.2 U	0.84 U	1.1 U	1.1 U	1.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	0.42 U	0.67	0.47	0.43 U	0.43 U	4.3 U	0.85 U	0.49	4.3 U	0.66	0.41	0.43 U	0.14	0.43 U	0.41	0.45	0.43 U	0.43 U	0.45	0.85 U	0.43 U	0.34 J	0.46	0.85 U
Tetrachloroethene	1.7	1.4 U	26	0.68 U	1.4 U	66	69	56	84	69	40	140	230	410	130	74	510	610	190	110	120	450	170	5.6	130	200	1.3	3	100	410	150	140	81	110	370	18	81	89	390
Tetrahydrofuran	1.7	140	3600	21	65	41	23	12	14	7.5	3.0 U	5.6	15	4.1	1.5 U	2800	0.7	18	6.1	2.7	3900	7.9	9.9	1000	13	1.1	8.2	120	2000	10	4.6	2100	1400	2100	4.6	350	660	720	3.5
Toluene	0.75 U	0.75 U	7.4	4.1	1.7	14	2.9	3.6	1.7	0.95 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U	5.4	4.8	2.2	0.47	0.88	3.8 U	1.9	1.1	8.1	1.1	1.9	1.6	0.63	1.1	3.1	6.5	1	1.2	1.4	0.59 J	0.63	0.72	1.0	0.59 J
trans-1,2-Dichloroethene	0.79 U	0.79 U	4 U	0.4 U	0.79 U	150	140	90	90	80	48	120	140	150	84	22	120	110	78	58	4.0 U	82	54	3.8	37	45	0.40 U	2.1	7.1	64	32	13	9.2	7.7	28	1.9	6.7	4.9	22
trans-1,3-Dichloropropene	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	0.44 U	0.44 U	0.44 U	0.45 U	0.45 U	4.5 U	0.91 U	0.45 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U
Trichloroethene	47	25	350	3.3	6.4	230	210	180	180	200	110	330	420	920	420	190	690	730	440	310	260	680	310	53	320	450	1.1	17	170	740	350	280	210	190	440	46	180	170	610
Trichlorofluoromethane	20	7.3	66	7.4	4.6	1800	1400	900	690	640	190	310	660	1400	620	210	690	700	530	740	330	2500	1000	180	1300	2000	3.5	91	280	1500	990	1100	690	300	1100	200	460	340	1300
Trichlorotrifluoroethane	6.1 U	6.1 U	31 U	3.1 U	6.1 U	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U	3.8 U	3.8 U	3.8 U	0.76 U	0.76 U	0.76 U	0.89	0.77 U	7.7 U	1.5 U	1	3.8 U	0.78	0.57	0.77 U	0.71	0.77 U	1.1	1.1	0.9	0.77 U	0.77 U	1 J	0.78	0.8 J	0.74 J	1.3 J
Vinyl acetate	0.79 J	14 U	8.6 J	7 U	14 U	15 U	0.72 U	0.90 U	3.6 U	0.90 U	15 U	1.8 U	1.8 U	7.1 U	3.6 U	0.71 U	0.36 U	0.71 U	0.70 U	0.35 U	70 U	0.70 U	0.35 U	7.0 U	2.2	0.70 U	0.70 U	0.70 U	7.0 U	2.5 U	7.0 U	7.0 U	7.0 U	7 U	1.2 J	7 U	7 U	7 U	14 U
Vinyl chloride	0.51 U	0.51 U	4.8	0.26 U	0.51 U	280	370	180	48	21	2.6 U	2.7	3.2	1.3 U	1.6	1	0.26 U	1.6	0.41	0.26 U	2.6 U	0.51 U	0.26 U	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.9	0.090 U	0.26 U	0.26 U	1.5	1.8	0.26 U	0.16 J	0.82	1.4	0.51 U

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Extraction Well - Western Small Retail Space					CT IACTIND 2003 (ug/m^3)	Indoor Air - Eastern Small Retail Space																																	
Parameter (ug/m^3)	EW-7-121815 12/18/2015	EW-7-021816 2/18/2016	EW-7-080516 8/5/2016	EW-7-021017 2/10/2017	EW-7-090717 9/7/2017		IA-5 011609 1/16/2009	IA-5-020309 2/3/2009	IA-5-021109 2/11/2009	IA-5-021809 2/18/2009	IA-5-022609 2/26/2009	IA-5-030609 3/6/2009	IA-5-041409 4/14/2009	IA-5-051509 5/15/2009	IA-5-061109 6/11/2009	IA-5-091709 9/17/2009	IA-5-122909 12/29/2009	IA-5-032610 3/26/2010	IA-5-070110 7/1/2010	IA-5-091610 9/16/2010	IA-5-120810 12/8/2010	IA-5-021711 2/17/2011	IA-5-060211 6/2/2011	IA-5 091511 9/15/2011	IA-5-120811 12/8/2011	IA-5-030812 3/8/2012	IA-5-061412 6/14/2012	IA-5-091312 9/13/2012	IA-5-010313 1/3/2013	IA-5-031513 3/15/2013	IA-5-060713 6/7/2013	IA-5-090613 9/6/2013	IA-5-121313 12/13/2013	IA-5-030714 3/7/2014	IA-5-061314 6/13/2014	IA-5-091214 9/12/2014	IA-5-121914 12/19/2014	IA-05-032715 3/27/2015	IA-5-061115 6/11/2015	IA-5-091615 9/16/2015
1,1,1-Trichloroethane	40	1.1 U	160	30	1.2	500	48	0.92	0.27 U	0.27 U	0.27 U	0.27 U	0.98	0.27 U	0.27 U	0.27 U	0.27 U	0.38	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.15	0.082 U	0.065	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.042 J	0.19 U	0.077 J
1,1,1,2-Tetrachloroethane		2.5 U		1.2 U	2.5 U	1.1																		0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	1.4 U	1.4 U	6.9 U	0.69 U	1.4 U	0.14	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	**0.16**	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	1.1 U	1.1 U	5.5 U	0.55 U	1.1 U	12	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.14	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	6.5	0.81 U	30	6.3	0.81 U	430	1.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 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	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.79 U	0.79 U	4 U	0.4 U	0.79 U	20	0.58	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	1.5 U	1.5 U	7.4 U	0.74 U	1.5 U	NA	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.75 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	22	0.45 U	0.45 U	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	52	0.25 U	0.32	0.33	0.36	0.25 U	0.25 U	0.20	0.25 U	0.35	0.25 U	0.25 U	0.25 U	0.25 U	0.73	0.25 U	0.25 U	0.25 U	0.25 U	1.3	0.15 U	0.16	0.29	0.17 U	0.072	0.21	0.27	0.17 U	0.69	0.23	0.17 U	0.17 U	0.13 J	0.12 J	0.23
1,2-Dibromoethane (EDB)	1.5 U	1.5 U	7.7 U	0.77 U	1.5 U	0.038	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	410	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	23	0.18 U	0.18 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	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.81 U	0.81 U	4 U	0.4 U	0.81 U	0.31	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.066	0.061 U	0.044	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	0.045 J	0.065 J	0.14 U
1,2-Dichloropropane	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	0.42	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.067	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.1 J	0.16 U
1,2-Dichlorotetrafluoroethane	1.4 U		7 U			NA	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																				
1,3,5-Trimethylbenzene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	52	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.39	0.15 U	0.077	0.11	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.19	0.17 U	0.17 U	0.17 U	0.038 J	0.038 J	0.066 J
1,3-Butadiene	0.44 U	0.44 U	2.2 U	0.22 U	0.44 U	NA	0.11 U	0.11 U	0.11 U	0.25	0.11 U	0.11 U	0.080 U	0.11 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.58	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.19
1,3-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	410	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.076	0.18 U	0.18 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	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	1.2 U	1.2 U	6 U	0.6 U	1.2 U	24	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.37	0.18 U	0.18 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	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane	7.2 U		36 U			NA															0.18 U			0.18 U																
2-Butanone	4.6 J	67	35 J	6 J	180	500	7.2	2.4	2.7	2.6	0.75	0.45	3.8	1.9	5.3	2.1	0.79	1.5	2.1	1.4	0.78	0.78 B	3.6	5.9 U	0.98	2.0	0.94	2.3	1.3	1.3	3.2	2.4	2.2	1.8	3.7	0.8 J	0.8 J	2.1 J	1.4 J	1.6 J
2-Hexanone	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	NA	0.20 U	0.48	0.38	0.27	0.20 U	0.20 U	0.47	0.45	1.1	0.48	0.20 U	0.23	0.44	0.20 U	0.20 U	0.20 U	4.1 U	0.20 U	0.13	0.32	0.081	0.17	0.16	0.16	0.48	0.44	0.14 U	0.32	0.52	0.14 U	0.14 U	0.43	0.16	0.14 U
4-Ethyltoluene	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U	NA	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.25	0.15 U	0.053	0.097	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.22	0.17 U	0.17 U	0.17 U	0.17 U	0.041 J	0.079 J
4-Methyl-2-pentanone	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	200	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.18	0.20 U	0.68	0.23	0.20 U	0.20 U	0.20 U	1.1	0.20 U	0.20 U	0.31	0.20 U	0.13	0.18	0.34	0.22	0.14 U	0.14 U	0.19	0.14 U	0.14 U	0.24	0.35	0.14 U	0.14 U	0.19	0.14 U	0.14 U
Acetone	19 U	29	81 J	25	51	500	32	11	21	20	9.5	6.5	14	14	46	16	15	11	18	17	6.4 B	9.5 B	24 B	15	6.6	11	13	13	9.0	9.7	24	19	40	12	25	10	10	14	12	18
Benzene	1.3	1.2	3.2 U	0.4	0.42 J	3.3	0.79	0.60	0.99	1.6	0.41	0.55	0.62	0.49	0.53	0.35	0.45	0.65	0.16 U	1.1	0.26	1.1	0.33	0.29	0.38	0.34	0.20	0.53	0.53	0.80	0.27	0.68	0.55	2.9	0.55	0.4	0.4	0.54	0.33	0.76
Benzyl chloride	1 U	1 U	5.2 U	0.52 U	1 U	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	3.9	1.3 U	6.7 U	0.67 U	1.3 U	0.46	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	2.1 U	2.1 U	10 U	1 U	2.1 U	7.3	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.78 U	0.78 U	3.9 U	0.39 U	0.78 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.23	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 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	0.14 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	6.2 U	6.2 U	31 U	3.1 U	1.9 J	NA	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.27	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.93 U	0.11	1.1 U	1.1 U	1.1 U	0.13	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.096 J	0.098 J
Carbon tetrachloride	1.3 U	1.3 U	6.3 U	0.63 U	1.3 U	0.54	0.33	0.44	0.50	**0.55 [a]**	0.47	**0.61 [a]**	0.44	**0.64 [a]**	0.46	0.39	0.41	0.48	0.53	0.44	0.54	**0.6 [a]**	**0.59 [a]**	0.48	0.49	0.46	0.42	0.38	**0.58 [a]**	0.37	**0.59**	0.47	0.50	0.43	0.45	0.36	0.36	0.35	0.37	0.44
Chlorobenzene	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U	200	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.48	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.53 U	0.53 U	2.6 U	0.26 U	1.1 U	500	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.059	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Chloroform	2.8	0.98 U	9.3	2.2	0.98 U	0.5	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	**0.55**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.49	0.073 U	0.14	0.17	0.17 U	0.069	0.17 U	0.17	0.17 U	0.17 U	0.17 U	0.099 J	0.099 J	0.062 J	0.14 J	0.19
Chloromethane	0.83 U	0.83 U	4.1 U	0.41 U	0.83 U	80	1.1	1.0	1.5	1.4	1.1	1.1	1.1	1.0	1.4	1.0	2.0	1.2	1.0	1.0	0.76	0.96	1.1	1.3	1.0	1.1	1.4	1.2	1.0	1.2	1.5	1.2	1.3	1.3	1.2	0.81	0.81	0.97	1.3	1.1
cis-1,2-Dichloroethene	2.70	0.79 U	19.00	2.70	0.79 U	100	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.18	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.18	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.075 J
cis-1,3-Dichloropropene	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	2.9	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.69 U	0.69 U	3.4 U	0.34 U	0.69 U	NA	0.17 U	0.17 U	0.38	0.41	0.17 U	0.17 U	0.12 U	0.17 U	0.40	0.17 U	0.17 U	0.17 U	0.17 U	0.45	0.17 U	0.17 U	0.46	0.17 U	0.10 U	0.10 U	0.12	0.21	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.40	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.18
Dibromochloromethane	1.7 U	1.7 U	8.5 U	0.85 U	1.7 U	NA	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	3.2	2.0	6.9	1.1	2.2	500	2.0	2.2	2.5	2.7	2.6	2.6	1.9	2.5	2.2	2.1	1.9	1.8	2.4	1.9	2.3	3.1	1.7	2.0	2.6	2.0	2.9	2.8	2.8	1.6	3.4	1.9	2.5	1.3	2.2	1.9	1.9	1.3	2	1.7
Ethanol	14 J	18	49 J	13	65	NA	590	12	23	140	85	32	41	180	500	62	51	25	58	150	2.4	14	7.7	7.9	5.4	14	43	11	3.9	1.9	12	15	4.5	18	20	7.7	7.7	12	25	13
Ethyl acetate	0.72 U	0.72 U	3.6 U	0.36 U	0.74 J	NA	0.75	0.37 U	0.18 U	0.18 U	0.37 U	0.18 U	0.26 U	0.18 U	0.31	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.48	0.21	0.66	0.59	0.13 U	1.5	0.29	0.83	0.17	0.43	0.29	0.29	5	0.17	0.61
Ethylbenzene	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	290	0.22 U	0.25	0.33	0.43	0.22 U	0.22 U	0.24	0.22 U	0.30	0.23	0.22 U	0.22 U	0.44	0.91	0.22 U	0.30	0.36	0.22 U	1.2	0.13 U	0.16	0.31	0.15	0.091	0.15 U	0.26	0.15 U	0.65	0.3	0.12 J	0.12 J	0.17	0.12 J	0.34
Hexachlorobutadiene	2.1 U	2.1 U	11 U	1.1 U	2.1 U	NA	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	1.1 U	0.53 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.17	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	28 U	28 U	140 U	14 U	28 U	NA	0.84	0.54	1.1	0.99	0.39	0.5	0.71	0.58	1.0	0.52	0.57	0.43	0.48	1.0	0.30	1.3	1.7	7.0 U	0.36	0.48	0.57	1.2	0.95	1.1	1.4	0.75	0.46	1.4	0.56	0.3 J	0.3 J	5.1	0.42 J	0.92 J
Isopropyl alcohol	20 U	6.4 J	98 U	5.1 J	11 J	NA	3.8	3.5	580	2.9	3.0	1.3	1.7	2.0	19	3.5	3.8	3.8	1.9	8.2	0.12 U	1.7	1.2 U	6.4	2.9 U	2.9 U	2.9 U	3.3	0.75	3.4 U	3.4 U	3.4 U	3.4 U	2.4	6.5	0.47 J	0.47 J	2.6 J	9.4	5.3
m,p-Xylene	1.7 U	1.7 U	8.7 U	0.87 U	1.7 U	500	0.60	0.74	0.91	1.2	0.43 U	0.43 U	0.68	0.51	0.88	0.59	0.43 U	0.46	1.2	2.4	0.43 U	0.85	0.57	0.53	3.0	0.12	0.36	0.97	0.60	0.24	0.49	0.81	0.3	1.9	1	0.54	0.54	0.5	0.4	1.0
Methyl methacrylate		0.82 U		0.41 U	0.82 U	NA															0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 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	0.14 U	0.14 U		0.14 U
Methylene chloride	6.9 U	1.4 J	35 U	1.3 J	6.9 U	17	2.0	3.6	5.2	1.1	1.2	0.74	2.5	2.9	2.0	0.70 U	4.3	2.2	1.3	0.75	0.65	2.8	4.2	7.7	1.6	1.6	1.1	2.3	5.2	2.0	3.0	1.1	0.83	0.67	0.73	0.28 J	0.28 J	1 J	0.48 J	0.52 J
Methyl-t-butyl ether	0.72 U	0.72 U	3.6 U	0.36 U	0.72 U	190	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.039	0.11 U	0.11 U	0.18	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U	NA	0.20 U	0.20 U	0.36	0.35	0.20 U	0.20 U	0.23	0.38	0.48	0.20 U	0.20 U	0.20 U	0.20 U	2.1	0.20 U	0.33	0.20 U	0.20 U	0.081	0.089	0.18	0.32	0.14 U	0.14 U	0.18	0.46	0.14 U	0.75	0.56	0.14 U	0.14 U	0.17	0.17	0.35
o-Xylene	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U	500	0.23	0.27	0.35	0.47	0.22 U	0.22 U	0.23	0.23	0.32	0.22 U	0.22 U	0.22 U	0.31	0.87	0.22 U	0.30	0.26	0.22 U	1.0	0.13 U	0.14	0.35	0.19	0.10	0.17	0.33	0.15 U	0.75	0.32	0.13 J	0.13 J	0.18	0.13 J	0.36
Propylene (Propene)	14 U	14 U	69 U	0.77 J	14 U	NA	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U	0.13 U	0.090 U	0.090 U	0.35 U	0.35 U	0.35 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	1.4	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.1	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.85 U	0.85 U	4.3 U	0.43 U	0.85 U	290	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.15 U	0.21 U	1.5	0.30	0.21 U	0.35	0.32	0.58	0.21 U	0.21 U	0.21 U	0.21 U	1.0	0.13 U	0.76	0.24	0.15 U	0.15 U	0.15 U	0.20	0.15 U	0.18	0.15 U	0.15 U	0.15 U	0.036 J	0.096 J	0.18
Tetrachloroethene	170	2.7	1200	27	5	5	0.39	0.34 U	0.43	0.43	0.34 U	0.34 U	0.24 U	0.47	0.34 U	0.41	0.34 U	0.34 U	0.34 U	0.34 U	0.39	2.4	0.34 U	0.58	**5.7**	0.15	0.15	1.6	0.24 U	0.12	0.24 U	0.24 U	0.24 U	0.39	0.54	0.13 J	0.13 J	0.39	0.2 J	0.18 J
Tetrahydrofuran	5.8	38	31	2.5	130	NA	3.2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.10	0.088 U	0.10	0.10 U	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	0.75 U	0.75 U	5.7	0.39	1.2	500	1.3	1.1	3.0	3.3	0.65	0.51	1.5	2.8	2.8	1.5	0.54	1.5	0.70	6.2	0.19 U	1.8	0.90	0.97	1.9	0.28	0.78	2.0	0.56	0.61	0.95	2.6	0.89	3.8	2.2	0.78	0.78	0.74	0.75	2.7
trans-1,2-Dichloroethene	7.7	0.79 U	46	9	0.79 U	200	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U	2.9	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	380	6.2	1500	140	15	1	**5.5**	0.39	0.27 U	0.27 U	0.27 U	0.27 U	0.22	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.28	0.27 U	0.27 U	0.27 U	0.27 U	0.63	0.081 U	0.045	0.10	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.23	0.19 U	0.19 U	0.19 U	0.083 J	0.19 U	0.17 J
Trichlorofluoromethane	850	23	2500	890	23	500	3.0	1.3	1.7	1.8	1.5	1.7	1.2	1.3	2.0	1.2	1.8	1.4	1.5	6.3	1.3	1.7	1.4	1.7	1.1	0.98	1.7	1.6	1.8	1.3	2.1	1.6	1.6	1.7	1.4	1.3	1.3	1.1	1.5	1.3
Trichlorotrifluoroethane	6.1 U	6.1 U	31 U	0.9 J	6.1 U	NA	0.62	0.54	0.48	0.45	0.64	0.48	0.53	0.61	0.54	0.5	0.54	0.55	0.55	0.43	0.52	0.66	0.69	0.63	0.69	0.46	0.53	0.6	0.61	0.6	1.4	0.63	0.54	0.47	0.58	0.64	0.64	0.49 J	0.67 J	0.59 J
Vinyl acetate	14 U	14 U	8.8 J	7 U	14 U	NA	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.50 U	0.18 U	0.18 U	0.71 U	0.36 U	0.36 U	0.18 U	0.36 U	0.43	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.55	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.51 U	0.51 U	2.6 U	0.26 U	0.51 U	1.9	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Eastern Small Retail Space					Extraction Well - Center Small Retail Space				
Parameter (ug/m^3)	IA-5- 121815 12/18/2015	IA-5- 021816 2/18/2016	IA-5- 080516 8/5/2016	IA-5- 021017 2/10/2017	IA-5- 090717 9/7/2017	IA-6 011609 1/16/2009	IA-6- 020309 2/3/2009	IA-6- 021109 2/11/2009	IA-6- 021809 2/18/2009	IA-6- 022609 2/26/2009
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	110	3.9	0.27 U	0.29	0.27 U
1,1,1,2-Tetrachloroethane		0.44 U		0.44 U	0.44 U					
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	3.9	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	1.2	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.2	0.17 U	0.27	0.17 U	0.19	0.75	0.32	0.29	1.5	0.25 U
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.25 U		0.25 U			0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.38	0.25 U
1,3-Butadiene	0.14	0.078 U	0.078 U	0.078 U	0.078 U	0.11 U	0.11 U	0.11 U	1.1	0.11 U
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.41	0.30 U
1,4-Dioxane	1.3 U		1.3 U							
2-Butanone	1.8 J	0.86 J	1.3 J	0.67 J	2.9 J	120	10	3.2	2.9	2.4
2-Hexanone	0.14 U	0.15	0.31	0.14 U	0.57	0.20 U	0.42	0.37	0.34	0.20 U
4-Ethyltoluene	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.47	0.25 U
4-Methyl-2-pentanone	0.14 U	0.14 U	0.14 U	0.14 U	0.37	0.20 U	0.20 U	0.20 U	0.36	0.20 U
Acetone	23	7.1	18	5.4	24	44	14	14	25	11
Benzene	0.93	0.45	0.29	0.45	0.53	1.0	0.60	0.98	**4.1 [a]**	0.41
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromoform	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.47	0.33	0.42	0.43	0.41	0.39	0.42	0.52	**0.59 [a]**	0.47
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.17	0.17 U	0.19	0.17	**0.84**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.3	0.91	1.1	1.2	2.4	1.3	0.90	1.4	1.5	1.0
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.40	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	0.39	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	0.17 U	0.25	0.91	0.17 U
Dibromochloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.4	2.5	0.54	1.1	1.3	2.0	2.1	2.6	2.8	2.6
Ethanol	6.8	3.4	38	3.3	130	41	23	12	40	13
Ethyl acetate	0.46	0.47	0.64	0.13 U	0.4	0.37 U	0.37 U	0.18 U	0.22	0.37 U
Ethylbenzene	0.44	0.26	0.2	0.15 U	0.43	0.29	0.25	0.33	1.6	0.22 U
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexane	0.48 J	0.34 J	0.82 J	4.9 U	0.43 J	1.2	0.78	0.70	2.6	0.33
Isopropyl alcohol	3.4 U	0.68 J	5.7	0.81 J	6.2	4.7	6.6	3.2	4.9	1.7
m,p-Xylene	2.1	0.2 J	0.6	0.15 J	1.1	0.82	0.72	0.84	4.9	0.43 U
Methyl methacrylate		0.14 U		0.14 U	0.14 U					
Methylene chloride	0.62 J	1.2 J	1.2 J	0.25 J	0.36 J	2.5	5.2	0.59	1.6	0.83
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.28	0.14 U	0.27	0.14 U	0.37	0.27	0.20 U	0.32	1.3	0.20 U
o-Xylene	0.6	0.24	0.21	0.15 U	0.4	0.36	0.26	0.34	1.8	0.22 U
Propylene (Propene)	2.4 U	2.4 U	2.4 U	0.78 J	1.6 J	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U
Styrene	0.15 U	0.15 U	0.15 U	0.15 U	0.31	0.21 U	0.21 U	0.21 U	0.28	0.21 U
Tetrachloroethene	0.43	0.24 U	2	0.24 U	0.44	1.2	0.34 U	0.45	1.2	0.34 U
Tetrahydrofuran	0.1 U	0.1 U	0.1 U	0.1 U	0.13 J	77	2.8	0.32	0.15 U	0.15 U
Toluene	2.6	0.43	1.4	0.43	2.2	1.8	1.3	2.5	11	0.65
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	**13**	**1.7**	0.27 U	0.34	0.27 U
Trichlorofluoromethane	1.8	1	1	1.3	1.1	4.8	1.3	1.7	2.5	1.5
Trichlorotrifluoroethane	0.58 J	0.46 J	0.48 J	0.53 J	0.44 J	0.64	0.51	0.48	0.45	0.64
Vinyl acetate	1.8 J	2.5 U	2.5 U	2.5 U	1.1 J	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U
Vinyl chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

	Extraction Well - Center Small Retail Space									
Parameter (ug/m^3)	IA-6- 030609 3/6/2009	IA-6- 041409 4/14/2009	IA-6- 051509 5/15/2009	IA-6- 061109 6/11/2009	IA-6- 091709 9/17/2009	IA-6- 122909 12/29/2009	IA-6- 032610 3/26/2010	IA-6- 070110 7/1/2010	IA-6- 091610 9/16/2010	IA-6- 120710 12/7/2010
1,1,1-Trichloroethane	0.27 U	1.6	0.27 U	0.27 U	0.27 U	0.27 U	0.35	0.27 U	0.27 U	0.27 U
1,1,1,2-Tetrachloroethane										
1,1,2,2-Tetrachloroethane	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.75 U	0.75 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.25 U	0.18 U	0.25 U	0.29	0.34	0.25 U	0.25 U	0.25 U	0.33	0.25 U
1,2-Dibromoethane (EDB)	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	
1,3,5-Trimethylbenzene	0.25 U	0.18 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-Butadiene	0.11 U	0.080 U	0.11 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane										
2-Butanone	2.3	1.0	2.5	4.1	2.4	1.8	1.4	1.1	0.89	0.87
2-Hexanone	0.37	0.14 U	0.62	0.72	0.70	0.20 U	0.26	0.20 U	0.20 U	0.20 U
4-Ethyltoluene	0.25 U	0.18 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-Methyl-2-pentanone	0.20 U	0.14 U	0.34	0.70	0.29	0.20 U	0.20 U	0.20 U	0.40	0.20 U
Acetone	8.5	6.1	11	28	20	14	6.5	14	13	11 B
Benzene	0.70	0.59	0.47	0.43	0.31	0.40	0.55	0.19	0.60	0.44
Benzyl chloride	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bromoform	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U
Bromomethane	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	**0.6 [a]**	0.42	**0.77 [a]**	0.45	0.42	0.40	0.43	**0.55 [a]**	0.44	0.46
Chlorobenzene	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.36	0.36	0.24 U
Chloromethane	1.1	1.1	1.1	1.9	0.97	1.8	1.4	1.0	1.1	0.95
cis-1,2-Dichloroethene	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,3-Dichloropropene	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U
Cyclohexane	0.17 U	0.12 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
Dibromochloromethane	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.6	2.0	2.7	2.5	2.2	1.9	1.6	2.4	1.6	1.9
Ethanol	12	8.6	51	31	12	10	7.1	18	36	5.9
Ethyl acetate	0.18 U	0.26 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.22 U	0.21	0.22 U	0.24	0.23	0.22 U	0.22 U	0.22 U	0.43	0.22 U
Hexachlorobutadiene	1.1 U	0.75 U	1.1 U	1.1 U	0.53 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U
Hexane	0.40	0.63	0.38	0.68	0.45	0.18 U	0.22	1.3	0.69	0.39
Isopropyl alcohol	1.6	0.18 U	4.5	22	7.0	1.4	4.9	1.0	3.2	1.1
m,p-Xylene	0.43 U	0.51	0.43 U	0.67	0.62	0.43 U	0.51	0.58	1.1	0.43 U
Methyl methacrylate										0.20 U
Methylene chloride	0.69	2.0	2.0	2.6	0.70 U	2.9	0.70 U	4.5	0.64	0.94
Methyl-t-butyl ether	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.20 U	0.21	0.20 U	0.26	0.20 U	0.20 U	0.20 U	1.4	0.47	0.20 U
o-Xylene	0.22 U	0.19	0.22 U	0.25	0.23	0.22 U	0.22 U	0.22 U	0.42	0.22 U
Propylene (Propene)	0.090 U	0.13 U	0.090 U	0.090 U	0.35 U	0.35 U	0.35 U	0.87 U	0.35 U	0.86 U
Styrene	0.21 U	0.15 U	0.25	0.21 U	0.23	0.21 U	0.21 U	0.24	0.29	0.21 U
Tetrachloroethene	0.34 U	0.72	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Tetrahydrofuran	0.15 U	0.22	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	0.71	1.3	0.81	2.0	1.1	0.49	1.6	1.7	2.6	0.40
trans-1,2-Dichloroethene	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U
Trichloroethene	0.27 U	0.60	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.30	0.27 U
Trichlorofluoromethane	1.7	1.4	1.2	2.2	1.2	1.7	1.3	1.5	3.1	1.1
Trichlorotrifluoroethane	0.48	0.53	0.74	0.63	0.48	0.51	0.55	0.55	0.42	0.52
Vinyl acetate	0.18 U	0.50 U	0.18 U	0.18 U	0.71 U	0.36 U	0.36 U	0.18 U	0.36 U	0.35 U
Vinyl chloride	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

	Extraction Well - Center Small Retail Space									
Parameter (ug/m^3)	IA-6- 021711 02/17/2011	IA-6- 060211 6/2/2011	IA-6 091511 9/15/2011	IA-6- 120811 12/8/2011	IA-6- 030812 3/8/2012	IA-6- 061412 6/14/2012	IA-6- 091312 9/13/2012	IA-6- 010313 1/3/2013	IA-6- 031513 3/15/2013	IA-6- 060713 6/7/2013
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.085	0.082 U	0.072	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane			0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	2.8	0.52 U	0.52 U	0.52 U	0.26 U
1,2,4-Trimethylbenzene	0.35	0.25 U	0.25	0.16	0.15 U	0.21	0.17 U	0.17 U	0.076	0.21
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	1.7	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.056	0.061 U	0.056	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.061	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane										
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.059	0.15 U	0.091	0.17 U	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.13	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane			0.18 U							
2-Butanone	1.9 B	2.9 U	5.9 U	1.3	0.63	1.4	2.8	1.4	1.4	0.91
2-Hexanone	0.22	4.1 U	0.60	0.15	0.12 U	0.20	0.27	0.14 U	0.20	0.14 U
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.15 U	0.15 U	0.080	0.17 U	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.20 U	0.28	0.31	0.13	0.12 U	0.92	0.25	0.14 U	0.14 U	0.14 U
Acetone	14 B	19 B	26	10	7.4	15	18	11	10	20
Benzene	1.3	0.29	0.31	0.42	0.39	0.20	0.49	0.48	0.80	0.23
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.93 U	0.20	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	**0.57 [a]**	**0.64 [a]**	0.52	0.46	0.48	0.44	0.37	**0.55 [a]**	0.42	**0.58 [a]**
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.45	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U
Chloroform	0.24 U	0.24 U	0.24 U	0.10	0.073 U	0.24	0.17	0.17 U	0.075	0.17 U
Chloromethane	0.92	1.1	1.4	1.3	1.2	1.4	1.2	1.1	1.4	1.5
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.098	0.059 U	0.052	0.042	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.17 U	0.29	0.17 U	0.10 U	0.10 U	0.10 U	0.20	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U
Dichlorodifluoromethane	3.1	1.8	1.9	2.9	2.0	2.9	2.8	2.7	1.7	3.4
Ethanol	10	7.7	14	24	41	67	23	8.4	2.9	20
Ethyl acetate	0.18 U	0.18 U	0.18 U	0.48	0.69	0.31	1.0	0.42	0.34	0.64
Ethylbenzene	0.45	0.22 U	0.22 U	0.15	0.22	0.71	0.23	0.16	0.11	0.18
Hexachlorobutadiene	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	1.5	0.41	7.0 U	0.41	0.48	0.73	1.0	0.64	0.76	0.83
Isopropyl alcohol	2.8	1.2 U	11	2.9 U	2.9 U	2.9 U	6.7	3.4 U	3.4 U	3.4 U
m,p-Xylene	1.2	0.48	0.59	0.45	0.54	0.73	0.38	0.58	0.31	0.54
Methyl methacrylate	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U
Methylene chloride	3.0	1.0	1.7 U	1.5	1.8	1.5	2.2	1.6	1.1	1.3
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.14	0.13 U	0.13 U	0.13 U
n-Heptane	0.35	0.20 U	0.20	0.11	0.15	0.25	0.31	0.095	0.10	0.14
o-Xylene	0.40	0.22 U	0.22	0.17	0.13	0.29	0.12	0.18	0.13	0.21
Propylene (Propene)	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	1.4	2.4 U	2.4 U	2.4 U
Styrene	0.21 U	0.27	0.22	0.13	0.13 U	1.2	0.054	0.15 U	0.15 U	0.15 U
Tetrachloroethene	1.6	0.34 U	0.58	0.68	0.15	0.57	2.6	0.24 U	0.12	0.24 U
Tetrahydrofuran	0.15 U	0.15 U	0.15	0.12	0.088 U	0.088 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	2.9	0.93	1.2	1.2	1.4	1.1	1.5	0.56	0.65	1.1
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.19	0.081 U	0.24	0.20	0.19 U	0.072	0.19 U
Trichlorofluoromethane	1.6	1.1	1.7	1.4	1.0	1.6	1.7	2.0	1.3	2.1
Trichlorotrifluoroethane	0.69	0.67	0.56	0.68	0.44	0.57	0.62	0.61	0.65	1
Vinyl acetate	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.33	0.090 U

	Extraction Well - Center Small Retail Space									
Parameter (ug/m^3)	IA-6- 090613 9/6/2013	IA-6- 121313 12/13/2013	IA-6- 030714 3/7/2014	IA-6- 061314 6/13/2014	IA-6- 091214 9/12/2014	IA-6- 121914 12/19/2014	IA-06- 032715 3/27/2015	IA-6- 061115 6/11/2015	IA-6- 091615 9/16/2015	IA-6- 121815 12/18/2015
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.12	0.19 U	0.19 U	0.19 U	0.14 J	0.19 U
1,1,1,2-Tetrachloroethane	0.44 U	0.44 U	0.44 U	0.44 U	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U	
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.24 U	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.26 U	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.27	0.17 U	0.55	0.21	0.29	0.17 U	0.13 J	0.13 J	0.066 J	0.17 U
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.27 U	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.039 J	0.14 U	0.14 U	0.054 J	0.14 U	0.14 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane										0.25 U
1,3,5-Trimethylbenzene	0.17 U	0.17 U	0.17 U	0.17 U	0.071 J	0.17 U	0.038 J	0.052 J	0.17 U	0.17 U
1,3-Butadiene	0.078 U	0.078 U	0.59	0.078 U	0.044 U	0.078 U	0.061 J	0.078 U	0.14	0.12
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane										1.3 U
2-Butanone	2.8	2.2	1.6	3.1	0.66 J	0.81 J	1 J	1.2 J	1.1 J	0.73 J
2-Hexanone	0.48	0.14 U	0.29	0.41	0.043 J	0.14 U	0.18	0.12 J	0.14 U	0.14 U
4-Ethyltoluene	0.17 U	0.17 U	0.19	0.17 U	0.073 J	0.17 U	0.045 J	0.055 J	0.059 J	0.17 U
4-Methyl-2-pentanone	0.30	0.14 U	0.22	0.24	0.09	0.14 U	0.12 J	0.14 U	0.14 U	0.14 U
Acetone	29	27	12	26	9.2	8.2	9.2	11	17	9.3
Benzene	0.70	0.53	2.4	0.7	0.3	0.4	0.5	0.23	0.56	1.1
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.18 U	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.24 U	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.36 U	0.36 U	0.36 U	0.36 U	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.14 U	0.078 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.13	1.1 U	1.1 U	0.23	0.057 J	1.1 U	0.039 J	0.083 J	0.16 J	1.1 U
Carbon tetrachloride	0.47	0.45	0.45	0.43	0.42	0.33	0.31	0.37	0.41	0.54
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.2	0.053 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Chloroform	0.19	0.17 U	0.17 U	0.25	0.11	0.082 J	0.069 J	0.15 J	0.18	0.17 U
Chloromethane	1.1	1.2	1.3	1.9	1	0.88	0.95	1.2	1.1	1.3
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.1 J	0.14 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.12 U	0.12 U	0.34	0.16	0.069 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49
Dibromochloromethane	0.30 U	0.30 U	0.30 U	0.3 U	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	1.9	2.5	1.5	2.1	2.1	1.9	1.4	2.6	1.7	2.3
Ethanol	21	6.1	20	38	160	9.4	17	29	31	8.5
Ethyl acetate	0.42	0.13 U	0.17	0.34	1.7	0.13 U	0.3	0.13 U	0.51	1.6
Ethylbenzene	0.29	0.15 U	0.56	0.2	0.18	0.088 J	0.18	0.13 J	0.22	0.26
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.37 U	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	0.85	0.38	1.2	0.69	0.35 J	0.29 J	4.9 J	0.32 J	0.72 J	0.9 J
Isopropyl alcohol	3.4 U	0.85	1.7	8.1	3.4	0.52 J	3.1 J	4.7	7.7	3.4 U
m,p-Xylene	0.81	0.20	1.6	0.6	0.4	0.3	0.4	0.35	0.53	0.87
Methyl methacrylate	0.14 U	0.14 U	0.14 U	0.14 U	0.082 U	0.14 U	0.14 U		0.14 U	
Methylene chloride	1.1	0.71	0.64	0.83	0.64 J	0.28 J	0.49 J	0.41 J	0.49 J	1.2 J
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.13 U	0.072 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.47	0.14 U	0.71	1.1	0.16	0.14 U	0.15	0.14 J	0.24	0.36
o-Xylene	0.32	0.15 U	0.64	0.24	0.14	0.085 J	0.18	0.13 J	0.17	0.29
Propylene (Propene)	2.4 U	2.4 U	2.4 U	0.81	1.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.22	0.15 U	0.16	0.15 U	0.077 J	0.15 U	0.036 J	0.093 J	0.06 J	0.15 U
Tetrachloroethene	0.24 U	0.24 U	0.24	0.32	0.49	0.12 J	0.72	0.21 J	0.34	0.33
Tetrahydrofuran	0.10 U	0.10 U	0.10 U	0.17	0.046 J	0.1 U	0.1 U	0.1 U	0.077 J	0.1 U
Toluene	2.6	0.49	3.4	1.3	0.72	0.5	0.76	0.77	1.8	1.7
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.19 U	0.19 U	0.21	0.19 U	0.12	0.19 U	0.075 J	0.19 U	0.44	0.19 U
Trichlorofluoromethane	1.7	1.5	1.7	1.3	1.3	1.3	1	1.5	1.3	1.7
Trichlorotrifluoroethane	0.66	0.58	0.46	0.53	0.54	0.64	0.47 J	0.67 J	0.58 J	0.61 J
Vinyl acetate	2.5 U	2.5 U	2.5 U	2.5 U	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.090 U	0.090 U	0.090 U	0.090 U	0.084	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Extraction Well - Center Small Retail Space				Indoor Air - Western Small Retail Space																												
Parameter (ug/m^3)	IA-6-021816 2/18/2016	IA-6-080516 8/5/2016	IA-6-021017 2/10/2017	IA-6-090717 9/7/2017	IA-7 011609 1/16/2009	IA-7-020309 2/3/2009	IA-7-021109 2/11/2009	IA-7-021809 2/18/2009	IA-7-022609 2/26/2009	IA-7-030609 3/6/2009	IA-7-041409 4/14/2009	IA-7-051509 5/15/2009	IA-7-061109 6/11/2009	IA-7-091709 9/17/2009	IA-7-122909 12/29/2009	IA-7-032610 3/26/2010	IA-7-070110 7/1/2010	IA-7-091610 9/16/2010	IA-7-120710 12/7/2010	IA-7-021711 2/17/2011	IA-7-060211 6/2/2011	IA-7 091511 9/15/2011	IA-7-120811 12/8/2011	IA-7-030812 3/8/2012	IA-7-061412 6/14/2012	IA-7-091312 9/13/2012	IA-7-010313 1/3/2013	IA-7-031513 3/15/2013	IA-7-060713 6/7/2013	IA-7-090613 9/6/2013	IA-7-100313 10/3/2013	IA-7-121313 12/13/2013	IA-7-030714 3/7/2014
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	44	2.4	0.40	1.3	0.27 U	0.27 U	0.87	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.069	0.082 U	0.088	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane	0.44 U		0.44 U	0.44 U																		0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.42 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	1.3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 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
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.52	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.75 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	0.17	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.25 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.17 U	0.31	0.17 U	0.15 J	0.25 U	0.34	0.34	0.99	0.25 U	0.25 U	0.18 U	0.25 U	0.29	0.39	0.25 U	0.35	0.36	0.36	0.25 U	0.25 U	0.56	0.41	0.32	0.36	0.21	0.46	0.17 U	0.10	0.58	0.40	0.70	0.25	0.38
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.26 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.070	0.061 U	0.051	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.11	0.14 U	0.14 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.30	0.23 U	0.23 U	0.23 U	**0.63**	0.23 U	0.14 U	0.069 U	0.14 U	0.094	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane		0.25 U			0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U														
1,3,5-Trimethylbenzene	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.10	0.15	0.083	0.26	0.17 U	0.17 U	0.17 U	0.17 U	0.23	0.17 U	0.17 U
1,3-Butadiene	0.078 U	0.078 U	0.078 U	0.078 U	0.11 U	0.11 U	0.14	0.97	0.11 U	0.11 U	0.080 U	0.11 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.075 U	0.078 U	0.48
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.065	0.063	0.21 U	0.21 U	0.21 U	0.21 U	0.086	0.21 U	0.21 U
1,4-Dioxane		1.3 U																				0.18 U											
2-Butanone	0.51 J	1.8 J	0.65 J	3.7 J	70	6.5	3.9	5.2	2.2	1.3	1.3	2.3	7.3	2.2	0.49	2.1	4.3	1.8	0.42	1.7 B	4.7	5.9 U	2.1	0.97	1.1	2.8	1.9	1.9	1.7	1.6	3.8	0.69	1.5
2-Hexanone	0.14 U	0.14 U	0.14 U	0.22	0.20 U	0.29	0.20 U	0.91	0.20 U	0.20 U	0.14 U	0.53	1.5	0.53	0.20 U	0.20 U	0.82	0.55	0.20 U	0.20 U	1.4 J	0.73	0.12 U	0.081	0.23	0.41	0.20	0.35	0.14 U	0.15	1.1	0.14 U	0.37
4-Ethyltoluene	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.27	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.074	0.097	0.065	0.16	0.17 U	0.17 U	0.17 U	0.17 U	0.20	0.17 U	0.17 U
4-Methyl-2-pentanone	0.14 U	0.14 U	0.14 U	0.37	0.20 U	0.20 U	0.20 U	0.42	0.20 U	0.20 U	0.14 U	0.22	0.79	0.24	0.20 U	0.20 U	0.43	0.61	0.20 U	0.20 U	0.53	0.36	0.15	0.13	1.4	0.29	0.18	0.14 U	0.21	0.20	0.44	0.14 U	0.14 U
Acetone	5	21	7	38	29	12	13	32	7.8	6.6	6.5	10	31	22	31	12	41	27	12 B	15 B	48 B	38	17	13	18	24	14	15	49	46	46	20	15
Benzene	0.39	0.41	0.61	0.5	0.95	0.75	1.1	3.2	0.67	0.73	0.42	0.35	0.52	0.43	0.52	0.53	0.27	0.56	0.45	1.1	0.41	0.34	0.44	0.36	0.20	0.49	0.58	0.87	0.32	0.43	1.8	0.54	1.9
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.18 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U
Bromoform	0.36 U	0.36 U	0.36 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.36 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U
Carbon disulfide	1.1 U	1.1 U	1.1 U	1.1 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.26	0.16 U	0.16 U	0.26	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.27	1.6 U	0.93 U	0.93 U	0.93 U	0.090	1.1 U	1.1 U	0.16	0.60	0.14	1.1 U	1.1 U
Carbon tetrachloride	0.35	0.42	0.44	0.41	0.32	0.44	0.52	**0.56 [a]**	0.48	**0.6 [a]**	0.43	**0.65 [a]**	0.43	0.42	0.44	0.43	0.50	0.47	0.45	**0.56 [a]**	**0.69 [a]**	0.50	0.45	0.46	0.43	0.38	0.51	0.39	**0.55 [a]**	0.46	0.45	0.49	0.42
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.19 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.089 U	0.093 U	0.093 U
Chloroform	0.17 U	0.17 U	0.17 U	0.2	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.38	0.24 U	0.24 U	0.24 U	0.34	0.12	0.073 U	0.13	0.20	0.17 U	0.082	0.21	0.47	0.17	0.24	0.17 U
Chloromethane	1	1.2	1.2	1.3	1.7	0.98	1.4	1.5	1.0	1.2	1.1	0.93	1.8	1.2	2.1	1.2	1.3	1.4	0.99	1.0	1.6	1.6	1.3	1.6	1.2	1.3	1.1	1.4	1.5	1.3	1.2	1.2	1.4
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.29	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14	0.20 U	0.20 U	0.20 U	0.27	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.064	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U
Cyclohexane	0.12 U	0.12 U	0.12 U	0.12 U	0.17 U	0.17 U	0.32	0.70	0.17 U	0.17 U	0.12 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 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 U	0.23	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.30
Dibromochloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.29 U	0.30 U	0.30 U
Dichlorodifluoromethane	1.5	0.55	0.99	1.4	2.1	2.2	2.6	2.7	2.6	2.6	2.0	2.4	2.7	2.3	2.1	1.8	2.7	1.7	2.0	3.1	2.5	1.8	2.8	2.1	2.7	2.9	2.6	1.7	3.1	2.1	1.5	2.7	1.5
Ethanol	3.6	15	6.5	21	7.3	16	11	26	7.9	8.4	7.1	11	14	11	10	13	39	240	13	14	28	76	60	70	110	60	52	11	45	21	40	25	50
Ethyl acetate	0.13 U	40	30	1.9	0.37 U	0.37 U	0.18 U	0.21	0.37 U	0.18 U	0.26 U	0.18 U	0.24	2.6	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.70	0.21	1.8	0.94	0.39	0.57	0.77	0.13 U	5.5	1.3	1.9	0.34	0.56
Ethylbenzene	0.15 U	0.26	0.15 U	0.27	0.23	0.29	0.36	0.95	0.24	0.22 U	0.16 U	0.22 U	0.25	0.32	0.68	0.32	0.45	0.45	0.22 U	0.22 U	0.68	0.45	0.24	0.12	0.24	0.45	0.19	0.14	0.36	0.48	0.62	0.15 U	0.43
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.37 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	1.1 U	0.53 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.36 U	0.37 U	0.37 U
Hexane	4.9 U	2.1 J	1.8 J	0.75 J	0.90	0.87	0.91	2.0	1.1	0.60	0.69	0.33	1.5	0.88	0.25	0.33	0.70	0.64	0.50	1.3	0.58	7.0 U	3.9	0.80	0.67	0.97	0.86	0.87	2.9	1.3	0.97	0.39	1.1
Isopropyl alcohol	3.4 U	3.3 J	1.6 J	3.4 J	3.7	6.2	3.6	8.3	0.25 U	2.7	0.18 U	7.0	14	4.0	1.9	18	5.8	28	2.8	11	1.2 U	77	2.9 U	2.9 U	48	22	3.3	3.4 U	3.4 U	3.4 U	6.0	40	1.9
m,p-Xylene	0.2 J	0.77	0.22 J	0.81	0.61	0.82	0.94	2.8	0.73	0.43 U	0.31 U	0.43 U	0.72	0.86	2.8	0.82	1.2	1.2	0.43 U	0.43 J	1.5	1.1	0.72	0.30	0.54	1.4	0.71	0.40	1.1	1.2	1.8	0.25	1.2
Methyl methacrylate	0.14 U		0.14 U	0.14 U															0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 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
Methylene chloride	0.37 J	2.6	2.1	0.52 J	1.9	5.7	0.92	1.5	6.3	1.4	4.2	2.3	5.7	0.70 U	2.9	0.70 U	1.3	0.60	1.3	2.5	1.1	1.7 U	13	2.8	1.4	2.3	2.6	1.4	6.1	1.3	1.1	0.76	0.68
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.11	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U
n-Heptane	0.14 U	0.49	0.14 U	0.23	0.20	0.20 U	0.37	1.2	0.20 U	0.20 U	0.17	0.20 U	0.34	0.37	0.20 U	0.29	0.50	0.68	0.33	0.47	2.0	1.1	0.46	0.47	0.65	0.99	0.14 U	0.16	0.42	1.1	1.6	0.45	1.3
o-Xylene	0.15 U	0.29	0.15 U	0.28	0.24	0.31	0.39	0.97	0.24	0.22 U	0.16 U	0.22 U	0.25	0.31	0.6	0.28	0.43	0.43	0.22 U	0.22 U	0.69	0.41	0.30	0.17	0.20	0.56	0.24	0.15	0.40	0.44	0.85	0.15 U	0.44
Propylene (Propene)	2.4 U	2.4 U	2.4 U	2.4 U	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U	0.13 U	0.090 U	0.090 U	0.35 U	0.35 U	0.35 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U
Styrene	0.15 U	0.22	0.15 U	0.16	0.21 U	0.21 U	0.21 U	0.26	0.21 U	0.21 U	0.15 U	0.21 U	0.29	0.39	0.21 U	0.26	0.70	0.39	0.21 U	0.21 U	0.97	0.63	0.18	0.097	0.26	0.89	0.15 U	0.081	0.29	2.6	0.37	0.15 U	0.17
Tetrachloroethene	0.24 U	0.24	0.24 U	0.21 J	1.6	0.34 U	0.65	0.63	0.34 U	0.34 U	0.48	0.34 U	0.34 U	0.34 U	1	0.34 U	0.34 U	0.36	0.34 U	1.7	0.34 U	0.62	0.66	0.14	0.15	1.7	0.24 U	0.15	0.24 U	**5.5**	0.22	0.24 U	0.40
Tetrahydrofuran	0.1 U	0.1 U	0.1 U	0.17 J	45	2.1	0.74	0.43	0.15 U	0.15 U	0.27	0.15 U	0.15 U	0.51	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.24	0.18	0.088 U	0.088 U	0.088	0.10 U	0.10 U	0.10 U	0.10 U	0.65	0.15	0.10 U	0.10 U
Toluene	0.48	8.7	1.4	1.7	1.5	1.6	2.7	7.5	1.5	0.76	0.48	0.61	2.3	4.0	0.6	7.2	8.4	3.5	0.48	1.6	6.6	3.7	1.2	0.48	1.4	2.4	0.99	1.0	3.8	4.7	7.8	1.1	2.8
trans-1,2-Dichloroethene	0.14 U	0.17	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U
Trichloroethene	0.19 U	0.19 U	0.19 U	0.19 U	**4.6**	**1.1**	0.28	0.58	0.27 U	0.27 U	0.30	0.27 U	0.27 U	0.27 U	0.4	0.27 U	0.27 U	0.77	0.27 U	0.27 U	0.27 U	0.27 U	0.16	0.081 U	0.077	0.15	0.19 U	0.068	0.19 U	0.53	0.14	0.19 U	0.28
Trichlorofluoromethane	1.1	1.1	1.4	1.2	4.7	1.4	1.7	3.1	1.6	1.7	1.3	1.1	1.9	1.3	1.7	1.3	1.3	2.9	1.2	1.6	1.3	1.6	1.3	1.1	1.7	1.8	1.8	1.5	2.5	1.8	1.9	1.6	1.7
Trichlorotrifluoroethane	0.48 J	0.5 J	0.54 J	0.45 J	0.62	0.57	0.47	0.44	0.66	0.45	0.54	0.69	0.57	0.51	0.54	0.64	0.54	0.43	0.55	0.67	0.76	0.54	0.67	0.44	0.53	0.58	0.6	0.87	1	0.63	0.52	0.6	0.45
Vinyl acetate	2.5 U	2.5 U	2.5 U	2.5 U	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.50 U	0.18 U	0.18 U	0.71 U	0.36 U	0.36 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U
Vinyl chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.087 U	0.090 U	0.090 U

Bolded and shaded values are above the CT target
indoor air concentration for industrial/commercial scenarios

Table 1.
Summary of Analytical Results - Air Sampling for Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Western Small Retail Space										
Parameter (ug/m^3)	IA-7-061314 6/13/2014	IA-7-091214 9/12/2014	IA-7-121914 12/19/2014	IA-07-032715 3/27/2015	IA-7-061115 6/11/2015	IA-7-091615 9/16/2015	IA-7-121815 12/18/2015	IA-7-021816 2/18/2016	IA-7-080516 8/5/2016	IA-7-021017 2/10/2017	IA-7-090717 9/7/2017
1,1,1-Trichloroethane	0.19 U	0.055 U	0.19 U	0.19 U	0.19 U	0.054 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane	0.44 U	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.24 U	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.14 U	0.04 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
1,1-Dichloroethene	0.14 U	0.04 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
1,2,4-Trichlorobenzene	0.26 U	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.31	0.37	0.052 J	0.33	0.21	0.15 J	0.28	0.17 U	0.23	0.17 U	0.21
1,2-Dibromoethane (EDB)	0.27 U	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.12 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
1,2-Dichloroethane	0.14 U	0.15	0.14 U	0.065 J	0.19	0.18	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.16 U	0.085	0.16 U	0.16 U	0.16 U	0.16 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane							0.25 U		0.25 U		
1,3,5-Trimethylbenzene	0.17 U	0.057 J	0.17 U	0.083 J	0.083 J	0.048 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.078 U	0.044 U	0.078 U	0.078 U	0.078 U	0.078 U	0.14	0.078 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.21 U	0.06 J	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
1,4-Dichlorobenzene	0.21 U	0.12 U	0.21 U	0.16 J	0.15 J	0.055 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane							1.3 U		1.3 U		
2-Butanone	3	2.2 J	0.75 J	1.4 J	1.7 J	1.7 J	2 J	0.59 J	1.9 J	0.81 J	2.4 J
2-Hexanone	0.35	0.41	0.14 U	0.43	0.17	0.14 U	0.28	0.14 U	0.36	0.14 U	0.43
4-Ethyltoluene	0.17 U	0.065 J	0.17 U	0.09 J	0.069 J	0.055 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.34	0.18	0.14 U	0.18	0.15	0.14 U	0.18	0.14 U	0.14 U	0.14 U	0.28
Acetone	30	41	12	16	24	39	15	9.1	33	7.5	37
Benzene	0.57	0.36	0.4	0.57	0.27	0.91	0.97	0.43	0.27	0.47	0.47
Benzyl chloride	0.18 U	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.24 U	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.36 U	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.14 U	0.056 J	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
Carbon disulfide	0.15	0.11 J	1.1 U	0.042 J	0.1 J	0.15 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.45	0.46	0.33	0.34	0.36	0.39	0.51	0.37	0.45	0.42	0.4
Chlorobenzene	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.093 U	0.053 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U
Chloroform	0.18	0.12	0.096 J	0.079 J	0.19	0.23	0.17 U	0.17 U	0.2	0.15 J	0.31
Chloromethane	1.4	0.76	0.86	1	1.3	1.3	1.4	1	1.4	1.2	1.5
cis-1,2-Dichloroethene	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.086 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.12 U	0.069 U	0.12 U	0.12 U	0.12 U	0.12 U	0.46	0.12 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.30 U	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	2.1	2.2	1.8	1.3	1.9	1.8	2.3	1.6	0.57	0.88	1.4
Ethanol	79	96	39	110	110	440 E	33	13	23	15	95
Ethyl acetate	0.41	0.37	0.13 U	0.64	0.39	1.1	0.31	0.32	1.4	3.5	1.7
Ethylbenzene	0.35	0.2	0.085 J	0.58	0.19	0.3	0.25	0.15 U	0.31	0.15 U	0.29
Hexachlorobutadiene	0.37 U	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	0.9	0.37 J	0.35 J	4.9 J	0.36 J	0.67 J	0.52 J	0.28 J	1.9 J	0.36 J	0.65 J
Isopropyl alcohol	11.0	2 U	1.4 J	30.0	11	30	3.4 U	4.8	3.4 U	8.5	3.4 U
m,p-Xylene	1.1	0.54	0.29 J	0.67	0.48	0.64	0.84	0.27 J	0.93	0.16 J	0.82
Methyl methacrylate	0.14 U	0.082 U	0.14 U	0.14 U		0.14 U		0.14 U		0.14 U	0.14 U
Methylene chloride	0.74	0.63 J	0.39 J	0.6 J	0.58 J	0.54 J	1.2 J	0.4 J	1.1 J	0.49 J	0.59 J
Methyl-t-butyl ether	0.13 U	0.072 U	0.13 U	0.13 U	0.063 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	4.6	1.9	4.3	0.19	0.14 J	0.25	0.28	0.14 U	0.29	0.14 U	0.29
o-Xylene	0.39	0.19	0.088 J	0.26	0.19	0.23	0.3	0.15 U	0.34	0.15 U	0.29
Propylene (Propene)	1.5	1.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.78 J	2.4 U
Styrene	0.29	0.24	0.15 U	0.096 J	0.29	0.27	0.18	0.15 U	0.41	0.15 U	0.59
Tetrachloroethene	0.34	0.13	0.13 J	0.23 J	0.25	0.23 J	0.36	0.24 U	0.38	0.24 U	0.34
Tetrahydrofuran	0.14	0.13	0.1 U	0.11	0.15	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U
Toluene	2.2	1.3	0.72	1.1	1	2.1	1.6	0.59	1.8	0.51	1.8
trans-1,2-Dichloroethene	0.14 U	0.04 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
trans-1,3-Dichloropropene	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.19 U	0.077	0.19 U	0.1 J	0.19 U	0.31	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	1.4	1.3	1.4	1.2	1.5	1.3	1.7	1.1	1.1	1.4	1.2
Trichlorotrifluoroethane	0.52	0.58	0.63	0.64 J	0.65 J	0.59 J	0.6 J	0.46 J	0.48 J	0.58 J	0.46 J
Vinyl acetate	2.5 U	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.6 J
Vinyl chloride	0.090 U	0.026 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	0.09 U

Notes:
[a] Benzene and carbon tetrachloride are above the target air concentration, but are not compliance violations as indoor air concentrations are consistent with outdoor air concentrations that were sampled on the same day.

Prepared by / Date: AKN 9/20/17
Checked by / Date: MAM 09/22/17

NA - not available
U - Not detected, value is the detection limit
B - Compounds detected in method blank as well as field sample
J - Indicates compound was detected at an estimated value.
D - Result from diluted analyses
ug/m^3 - micrograms per cubic meter

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Table 2.
Vacuum Monitoring Results - Small Retail Spaces
Former Gorham Manufacturing Site
Providence, Rhode Island

	Pressure Differential (inches of water)		
Date	VMW-5	VMW-6	VMW-7
2/3/2009	-0.25	-0.17	0.00
2/18/2009	-0.212	-0.155	-0.011
2/26/2009	-0.230	-0.120	-0.025
3/6/2009	-0.200	-0.086	-0.012
4/14/2009	-0.108	-0.054	-0.014
5/15/2009	-0.081	-0.073	-0.016
6/11/2009	-0.090	-0.076	-0.098
9/17/2009	-0.110	-0.102	+0.074
12/29/2009**	-0.011	-0.010	-0.061
3/26/2010	-0.245	-0.142	-0.018
7/1/2010	-0.542	-0.114	-0.176
9/16/2010	-0.247	-0.874	-0.013
12/7/2010	-0.044	-0.028	+0.022
2/17/2011	-0.212	-0.599	-0.337
6/2/2011	-0.277	-0.236	-0.138**
9/15/2011	-0.234	-0.212	-0.010
12/8/2011	-0.609	-0.115	-0.009
3/8/2012	-0.003	-0.246	-0.114
6/14/2012	-0.237	-0.103	-0.132
9/13/2012	-0.243	-0.119	-0.210
1/3/2013	-0.150	-0.060	-0.052
3/15/2013	-0.228	-0.354	-0.002
6/7/2013	-0.226	-0.123	-0.011
9/6/2013	-0.232	-0.829	-0.007
10/3/2013	NM	NM	-0.006
12/13/2013	-0.215	-0.002	-0.002
3/7/2014	-0.177	-0.002	-0.002
6/13/2014	-0.185	-0.010	-0.011
9/12/2014	-0.258	-0.256	-0.014
12/19/2014	-0.222	-0.100	-0.001
3/27/2015	-0.301	-0.097	-0.036
6/11/2015	-0.23***	-0.1***	NM***
9/16/2015	-0.246	-0.050	-0.013
12/18/2015	-0.378	-0.177	-0.005
2/18/2016	-0.228	-0.987	-0.009
8/5/2016	-0.243	-0.095	-0.088
2/13/2017	-0.0195	-0.08	-0.107
9/6/2017	-0.242	-0.045	-0.003

** ASD system offline.
NM = Not Measured

*** Due to Digtial Manometer reading high range only at the time of measurment, readings are in tenths of inches of water. VMW-7 was not measured due to the low range of the vacuum.

Prepared by/Date: MAM 09/6/17
Checked by/Date: DEH 09/25/17

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Outdoor Air Reference Locations																																							
Parameter (ug/m^3)	AA-1 011609 1/16/2009	AA-1- 020309 2/3/2009	AA-1- 021109 2/11/2009	AA-1- 021809 2/18/2009	AA-1- 022609 2/26/2009	AA-1- 030609 3/6/2009	AA-1- 033109 3/31/2009	AA-1- 041409 4/14/2009	AA-1- 042409 4/24/2009	AA-1- 051509 5/15/2009	AA-1- 061109 6/11/2009	AA-1- 091709 9/17/2009	AA-1- 092409 9/24/2009	AA-1- 100109 10/1/2009	AA-1- 100809 10/8/2009	AA-1- 122909 12/29/09	AA-1- 012810 1/28/2010	AA-1- 020510 2/5/2010	AA-1- 021210 2/12/2010	AA-1- 021910 2/19/2010	AA-1- 032610 3/26/2010	AA-1- 043010 4/30/2010	AA-1- 052810 5/28/2010	AA-1- 070110 7/1/2010	AA-1- 091610 9/16/2010	AA-1- 120710 12/7/2010	AA-1- 021711 2/17/2011	AA-1- 060211 6/6/2011	AA-1 091511 9/15/2011	AA-1- 120811 12/8/2011	AA-1- 030812 3/8/2012	AA-1- 061412 6/14/2012	AA-1- 091312 9/13/2012	AA-1- 010313 1/3/2013	AA-1- 031513 3/15/2013	AA-1- 060713 6/7/2013	AA-1- 090613 9/6/2013	AA-1- 100313 10/3/2013	AA-1- 121313 12/13/13	AA-1- 030714 03/07/14	AA-1- 061314 6/13/2014
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.29	0.082 U	0.10	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane																													0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.42 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.18 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.063	0.061 U	0.12 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
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.16
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.62	0.45 U	0.12	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.25 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.25 U	0.28	0.52	1.8	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.29	0.30	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	0.25 U	0.25 U	0.94	0.25 U	1.1	0.25 U	0.25 U	0.16	0.15 U	0.15 U	0.26	0.17 U	0.069	0.21	0.17 U	0.19	0.17 U	0.17 U	0.51
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.26 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.34	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.066	0.061 U	0.046	0.14 U	0.14 U	0.057	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.50	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.28	0.25 U	0.33	0.25 U	0.25 U	0.068	0.15 U	0.15 U	0.16	0.17 U	0.17 U	0.17 U	0.17 U	0.047	0.17 U	0.17 U	0.18
1,3-Butadiene	0.11 U	0.11 U	0.17	1.3	0.11 U	0.11 U	0.11 U	0.08 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.29	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.075 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.53	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.20 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane																													0.18 U												
2-Butanone	0.58	1.2	2.4	3.2	1.6	0.67	1.7	0.11 U	1.6	1.6	1.1	1.7	0.84	1.2	1.2	2.0	0.81	1.6	1.6	0.88	1.5	1.4	2.4	2.3	2.7	0.37	1.8 B	2.9 U	5.9 U	0.35	1.4	1.1	2.0	0.89	1.9	3.9	3.7	0.94	0.82	1.4	2.2
2-Hexanone	0.20 U	0.22	0.57	0.35	0.20 U	0.20 U	0.20 U	0.14 U	0.26	0.39	0.20 U	0.34	0.20 U	0.33	0.23	0.20 U	0.20 U	0.32	0.20 U	0.20 U	0.29	0.29	0.49	0.49	0.41	0.20 U	0.20 U	4.1 U	0.67	0.12 U	0.34	0.14	0.27	0.14 U	0.13	0.49	0.32	0.14 U	0.14 U	0.26	0.34
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.60	0.25 U	0.25 U	0.25 U	0.18 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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.30	0.25 U	0.34	0.25 U	0.25 U	0.053	0.15 U	0.15 U	0.093	0.17 U	0.17 U	0.17 U	0.17 U	0.063	0.17 U	0.17 U	0.18
4-Methyl-2-pentanone	0.20 U	0.20 U	0.27	0.63	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.34	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	2.8	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.23	0.10	0.14 U	0.083	0.24	0.14 U	0.14 U	0.14 U	0.14 U	0.2
Acetone	7.3	8.0	15	22	8.4	5.9	12	1.1	27	9.5	10	10	9.6	5.4	17	11	3.5	7.6	5.0	3.7	9.5	12	20	13	14	5.7 B	19 B	8.7 B	20	4.9	9.4	10	12	8.7	18	28	16	12	26	9.3	22
Benzene	0.69	0.62	1.3	4.7	0.43	0.69	0.46	0.12 U	0.30	0.40	0.49	0.38	0.35	0.25	0.20	0.42	0.79	0.68	0.63	0.41	0.69	0.35	0.19	0.16 U	1.2	0.28	2.3	0.16 U	0.19	0.40	0.29	0.20	0.68	0.42	1.0	0.31	0.70	0.95	0.43	1.0	0.9
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U	0.24 U	0.24 U	0.24 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.28	0.16 U	0.16 U	0.44	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.38	0.16 U	0.16 U	1.6 U	0.058	0.93 U	0.11	1.1 U	1.1 U	0.052	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.38	0.44	0.52	0.56	0.43	0.61	0.47	0.22 U	0.41	0.78	0.43	0.40	0.40	0.43	0.46	0.39	0.42	0.39	0.31 U	0.43	0.49	0.47	0.52	0.51	0.43	0.42	0.48	0.53	0.48	0.49	0.43	0.43	0.36	0.52	0.41	0.55	0.47	0.43	0.45	0.22	0.42
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.089 U	0.093 U	0.093 U	0.11
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.094	0.073 U	0.067	0.096	0.17 U	0.21	0.17 U	0.17 U	0.10	0.17 U	0.17 U	0.17 U
Chloromethane	1.1	0.90	1.4	1.5	1.1	1.1	1.3	1.1	1.2	1.1	1.2	0.85	1.1	0.97	0.96	1.6	1.1	1.2	1.3	1.1	1.4	0.78	1.1	0.96	0.99	0.94	1.0	0.96	1.4	0.062 U	1.1	1.5	1.1	1.0	1.6	1.4	1.1	0.96	1.1	1.3	1.4
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12	0.059 U	0.12 U	0.14 U	0.14 U	0.092	0.14 U	0.16	0.13 U	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.17 U	0.17 U	0.35	1.1	0.17 U	0.17 U	0.17 U	0.12 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 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.46	0.17 U	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 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	0.31
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.29 U	0.30 U	0.30 U	0.30 U
Dichlorodifluoromethane	2.0	2.2	2.6	2.7	2.6	2.6	2.8	2.0	2.5	2.7	2.6	2.1	2.1	2.2	2.1	2.1	2.3	2.4	2.5	2.9	1.8	2.1	2.5	2.4	2.9	1.9	3.1	1.9	1.7	2.5	2.0	2.4	2.8	2.5	1.7	3.0	2.0	1.8	2.7	1.4	2
Ethanol	4.0	5.4	10	47	4.3	3.5	4.7	0.81	4.9	4.8	8.6	6.6	4.6	3.9	4.9	3.8	5.4	5.1	7.2	1.2	4.9	4.0	3.3	4.0	14	2.3	12	2.7	5.8	1.5	4.1	7.4	5.2	2.7	1.2	6.1	6.7	6.7	5.4	9.0	17.0
Ethyl acetate	0.37 U	0.37 U	0.18 U	0.31	0.37 U	0.18 U	0.18 U	0.26 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	1.1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.46	0.56	0.43	0.67	0.35	1.1	0.56	17	0.12 U	0.13 U	0.18	0.13 U
Ethylbenzene	0.22 U	0.25	0.52	2.0	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.24	0.22 U	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.82	1.4	0.22 U	1.1	0.22 U	0.22 U	0.31	0.13 U	0.065	0.19	0.15 U	0.12	0.16	0.15 U	0.21	0.15 U	0.16	0.44
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.36 U	0.37 U	0.37 U	0.37 U
Hexane	1.5	0.75	1.1	2.9	0.38	2.8	2.2	0.13 U	0.56	0.37	0.59	0.48	1.4	0.45	4.5	0.62	0.36	0.53	0.91	0.24	0.23	1.1	0.51	0.37	1.2	0.35 U	3.3	0.88	7.0 U	0.47	0.54	1.3	0.67	1.4	1.3	1.8	2.3	0.81	0.32	0.44	1.2
Isopropyl alcohol	1.4	1.4	1.8	4.3	1.4	0.67	1.4	0.18 U	14	1.0	2.5	2.8	0.87	0.63	0.25 U	0.54	0.56	2.7	1.5	0.80	0.73	0.69	1.6	0.79	0.25 U	0.29	2.4	1.2 U	4.9 U	0.60	0.88	2.9 U	0.58	0.47	0.52	1.3	6.2	3.3 U	0.77	0.92	3.1
m,p-Xylene	0.43 U	0.72	1.4	6.4	0.44	0.43 U	0.43 U	0.31 U	0.43 U	0.49	0.73	0.62	0.59	0.43 U	0.43 U	0.43 U	0.43 U	0.50	0.47	0.43 U	0.49	0.43 U	0.43 U	2.2	3.7	0.43 U	3.3	0.43 U	0.43 U	0.41	0.17	0.18	0.64	0.30 U	0.34	0.58	0.21	0.53	0.30 U	0.42	1.4
Methyl methacrylate																										0.20 U	0.48	0.20 U	0.20 U	0.12 U	0.12 U	0.12 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
Methylene chloride	5.5	3.1	0.65	1.5	0.78	7.4	15	2.1	2.8	1.7	1.9	0.70 U	4.2	0.70 U	23	4.6	1.3	1.9	1.7	0.70 U	0.70 U	0.70 U	0.35 U	1.1	1.1	0.66	3.0	2.3	1.7 U	1.5	1.6	3.0	2.1	4.4	2.9	2.3	9.1	1.0	0.76	0.55	1.20
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.20 U	0.27	0.92	1.6	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.40	0.23	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.26	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.91	0.20 U	0.95	0.20 U	0.20 U	0.12	0.089	0.11	0.18	0.14 U	0.12	0.21	0.15	0.18	0.14 U	0.21	0.62
o-Xylene	0.22 U	0.27	0.53	2.2	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.24	0.27	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.46	1.2	0.22 U	1.1	0.22 U	0.22 U	0.22	0.086	0.078	0.31	0.15 U	0.12	0.20	0.15 U	0.24	0.15 U	0.17	0.5
Propylene (Propene)	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U	0.13 U	0.18 U	0.090 U	0.090 U	0.35 U	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	0.87 U	1.9	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	0.77	1.3	2.4 U	2.4 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U	1.3
Styrene	0.21 U	0.21 U	0.21 U	0.28	0.21 U	0.21 U	0.21 U	0.15 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	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	0.21 U	0.21 U	0.37	0.13 U	0.10	0.13	0.15 U	0.039	0.15 U	0.15 U	0.052	0.15 U	0.15 U	0.16
Tetrachloroethene	0.34 U	0.34 U	0.73	0.77	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.52	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.49	0.34 U	5.3	0.34 U	0.34 U	0.73	0.10 U	0.20 U	0.87	0.24 U	0.90	0.24 U	0.24 U	0.30	0.24 U	0.24 U	0.40
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.11 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.057	0.088 U	0.088 U	0.43	0.10 U	0.10 U	0.10 U	1.4	0.10 U	0.10 U	0.23	0.10 U
Toluene	0.94	1.5	3.2	14	0.71	0.99	0.82	0.14 U	0.72	2.6	2.1	1.9	2	0.61	0.5	0.78	0.94	0.64	0.97	0.46	1.1	0.75	0.63	0.57	10	0.19 U	5.3	0.52	0.47	0.56	0.37	0.42	0.81	0.48	0.74	1.2	1.4	1.3	0.35	1.2	2.6
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.39	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.30	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.67	0.081 U	0.045	0.091	0.19 U	0.26	0.19 U	0.19 U	0.11	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	1.3	1.2	1.7	2.4	1.5	2.0	1.7	0.92	1.3	1.5	2.0	1.1	1.4	1.2	1.5	2.2	1.2	1.2	1.6	1.5	1.5	1.2	1.4	1.3	11	1.2	1.7	1.5	1.5	1.7	1.1	1.7	1.5	1.5	1.3	1.8	11	3.3	1.5	1.1	1.4
Trichlorotrifluoroethane	0.68	0.53	0.50	0.47	0.64	0.48	0.51	0.27 U	0.64	0.67	0.56	0.47	0.49	0.45	0.46	0.54	0.49	0.55	0.54	0.54	0.62	0.45	0.58	0.56	0.44	0.56	0.66	0.69	0.58	0.89	0.43	0.53	0.59	0.58	0.66	1.0	0.60	0.55	0.55	0.46	0.54
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.50 U	0.71 U	0.18 U	0.18 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.4 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.087 U	0.090 U	0.090 U	0.090 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Outdoor Air Reference Locations									
Parameter (ug/m^3)	AA-1-091214 9/12/2014	AA-1-121914 12/19/2014	AA-01-032715 3/27/2015	AA-1-061115 6/11/2015	AA-1-091615 9/16/2015	AA-1-121815 12/18/2015	AA-1-021816 2/18/2016	AA-1-080516 8/5/2016	AA-1-021017 2/10/2017	AA-1-090717 9/7/2017
1,1,1-Trichloroethane	0.055 U	0.19 U	0.19 U	0.19 U	0.073 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.04 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
1,1-Dichloroethene	0.04 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
1,2,4-Trichlorobenzene	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.069 J	0.17 U	0.2	0.059 J	0.29	0.31	0.17 U	0.17 U	0.17 U	0.17 U
1,2-Dibromoethane (EDB)	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.12 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
1,2-Dichloroethane	0.037 J	0.14 U	0.14 U	0.054 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane						0.25 U		0.25 U		
1,3,5-Trimethylbenzene	0.098 U	0.17 U	0.062 J	0.17 U	0.076 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.044 U	0.078 U	0.078 U	0.078 U	0.18	0.23	0.078 U	0.078 U	0.078 U	0.9
1,3-Dichlorobenzene	0.12 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
1,4-Dichlorobenzene	0.12 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
1,4-Dioxane						1.3 U		1.3 U		
2-Butanone	1.1 J	1.2 J	0.96 J	2.1 J	1 J	2 J	0.69 J	1.2 J	0.91 J	2.4 J
2-Hexanone	0.16	0.14 U	0.17	0.17	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
4-Ethyltoluene	0.098 U	0.17 U	0.079 J	0.17 U	0.093 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.036 J	0.14 U	0.092 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.30
Acetone	25	10	8.7	10	13	18	6.3	11	3.1 J	16
Benzene	0.2	0.6	0.7	0.41	0.82	1.4	0.5	0.35	0.37	2.2
Benzyl chloride	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.078 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
Carbon disulfide	0.098 J	1.1 U	0.057 J	1.1 U	0.09 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.45	0.36	0.34	0.36	0.43	0.55	0.38	0.39	0.44	0.4
Chlorobenzene	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.053 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U
Chloroform	0.08	0.082 J	0.065 J	0.11 J	0.18	0.31	0.17 U	0.17 U	0.17 U	0.17 U
Chloromethane	0.64	0.96	1.1	1.2	1.1	1.2	1	1.2	1.2	1.2
cis-1,2-Dichloroethene	0.04 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
cis-1,3-Dichloropropene	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.069 U	0.12 U	0.12 U	0.12 U	0.12 U	0.59	0.12 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	2.2	2.1	1.4	2.3	1.7	2.7	1.6	0.6	1.0	1.5
Ethanol	2.9	2.7	2 J	5	12	7	2.5 J	5.5	2.5 J	2.2 J
Ethyl acetate	0.17	0.13 U	0.27	0.13 U	0.68	0.14	0.42	6.5	2.3	0.25 U
Ethylbenzene	0.047 J	0.046 J	0.19	0.1 J	0.37	0.46	0.15 U	0.16	0.15 U	0.67
Hexachlorobutadiene	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	0.19 J	0.39 J	5.1	0.29 J	1 J	0.64 J	0.28 J	7.7	0.69 J	0.4 J
Isopropyl alcohol	0.61 J	3.4 U	0.65 J	0.44 J	2.7 J	0.68 J	3.4 U	0.88 J	0.76 J	0.52 J
m,p-Xylene	0.14 J	0.11 J	0.66	0.24 J	1.2	2	0.27 J	0.46	0.35	2.4
Methyl methacrylate	0.082 U	0.14 U	0.14 U		0.14 U		0.14 U		0.14 U	0.14 U
Methylene chloride	0.54 J	0.47 J	0.44 J	0.47 J	0.48 J	0.54 J	0.43 J	3.5	1 J	0.26 J
Methyl-t-butyl ether	0.072 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.054 J	0.14 U	0.19	0.14 U	0.39	0.49	0.14 U	0.24	0.14 U	0.47
o-Xylene	0.054 J	0.046 J	0.25	0.11 J	0.40	0.59	0.15 U	0.17	0.12 J	0.67
Propylene (Propene)	1.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.63 J	2.4 U
Styrene	0.085 U	0.15 U	0.15 U	0.15 U	0.12 J	0.15 U	0.15 U	0.15 U	0.15 U	0.46
Tetrachloroethene	0.07	0.09 J	0.22 J	0.29	0.35	0.61	0.24 U	0.41	0.24 U	0.24 U
Tetrahydrofuran	0.059 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.21 U
Toluene	0.33	0.35	1.3	0.51	2.9	3.2	0.75	1.1	2.4	2.2
trans-1,2-Dichloroethene	0.04 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
trans-1,3-Dichloropropene	0.045 U	0.16 U	0.064 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.052 J	0.19 U	0.19 U	0.19 U	1.1	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	1.3	1.3	1.1	1.5	1.2	1.7	1.1	1.4	1.3	1.1
Trichlorotrifluoroethane	0.57	0.63	0.49 J	0.65 J	0.57 J	0.6 J	0.51 J	0.47 J	0.55 J	0.46 J
Vinyl acetate	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.6 J	2.5 U	2.5 U
Vinyl chloride	0.026 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	0.09 U

	Extraction Well - Large Retail Space														
Parameter (ug/m^3)	EW-Combined-020309 2/3/2009	EW-COMBINED-021109 2/11/2009	EW-COMBINED-021809 2/18/2009	EW-COMBINED-022609 2/26/2009	EW-COMBINED-041409 4/14/2009	EW-COMBINED-042409 4/24/2009	EW-COMBINED-091709 9/17/2009	EW-COMBINED-092409 9/24/2009	EW-COMBINED-100109 10/1/2009	EW-COMBINED-100809 10/8/2009	EW-COMBINED-012810 1/28/2010	EW-COMBINED-020510 2/5/2010	EW-COMBINED-021210 2/12/2010	EW-COMBINED-021910 2/19/2010	EW-COMBINED-043010 4/30/2010
1,1,1-Trichloroethane	190000	91000	73000	32000	3500	19000	11000	8100	7900	6800	1500	2500	150	1200	1400
1,1,1,2-Tetrachloroethane															
1,1,2,2-Tetrachloroethane	6.8 U	6.8 U	14 U	14 U	6.8 U	0.34 U	3.4 U	6.8 U	14 U	14 U	0.68 U	6.8 U	0.34 U	0.68 U	0.68 U
1,1,2-Trichloroethane	5.4 U	5.4 U	11 U	11 U	5.4 U	0.65	2.7 U	5.4 U	11 U	11 U	0.54 U	5.4 U	0.27 U	0.54 U	0.54 U
1,1-Dichloroethane	19000	7800	5300	4800	390	2200	1600	1900	1900	1700	280	370	31	310	200
1,1-Dichloroethene	7800	1800	1000	630	73	420	310	250	260	280	52	66	7.3	62	30
1,2,4-Trichlorobenzene	7.4 U	7.4 U	15 U	15 U	7.4 U	0.37 U	3.7 U	7.4 U	15 U	15 U	0.74 U	7.4 U	0.37 U	0.74 U	0.74 U
1,2,4-Trimethylbenzene	5.0 U	5.0 U	10 U	10 U	5.0 U	0.25 U	2.5 U	5.0 U	10 U	10 U	0.50 U	5.0 U	0.25 U	0.50 U	0.50 U
1,2-Dibromoethane (EDB)	7.6 U	7.6 U	16 U	16 U	7.6 U	0.38 U	3.8 U	7.6 U	16 U	16 U	0.76 U	7.6 U	0.38 U	0.76 U	0.76 U
1,2-Dichlorobenzene	6.0 U	6.0 U	12 U	12 U	6.0 U	0.30 U	3.0 U	6.0 U	12 U	12 U	0.60 U	6.0 U	0.30 U	0.60 U	0.60 U
1,2-Dichloroethane	4.0 U	4.0 U	8.0 U	8.0 U	4.0 U	0.20 U	2.0 U	4.0 U	8.0 U	8.0 U	0.40 U	4.0 U	0.20 U	0.40 U	0.40 U
1,2-Dichloropropane	4.6 U	4.6 U	9.2 U	9.2 U	4.6 U	0.23 U	2.3 U	4.6 U	9.2 U	9.2 U	0.46 U	4.6 U	0.23 U	0.46 U	0.46 U
1,2-Dichlorotetrafluoroethane	7.0 U	7.0 U	14 U	14 U	7.0 U	0.35 U	3.5 U	7.0 U	14 U	14 U	0.70 U	7.0 U	0.35 U	0.70 U	0.70 U
1,3,5-Trimethylbenzene	5.0 U	5.0 U	10 U	10 U	5.0 U	0.25 U	2.5 U	5.0 U	10 U	10 U	0.50 U	5.0 U	0.25 U	0.50 U	0.50 U
1,3-Butadiene	2.2 U	2.2 U	4.4 U	4.4 U	2.2 U	0.11 U	2.3 U	4.5 U	8.9 U	8.9 U	0.45 U	4.5 U	0.23 U	0.45 U	0.45 U
1,3-Dichlorobenzene	6.0 U	6.0 U	12 U	12 U	6.0 U	0.30 U	3.0 U	6.0 U	12 U	12 U	0.60 U	6.0 U	0.30 U	0.60 U	0.60 U
1,4-Dichlorobenzene	6.0 U	6.0 U	12 U	12 U	6.0 U	0.30 U	3.0 U	6.0 U	12 U	12 U	0.60 U	6.0 U	0.30 U	0.60 U	0.60 U
1,4-Dioxane															
2-Butanone	37	32	48	60	21	40	7.8	31	30	21	4.0	11	10	9.0	12
2-Hexanone	4.0 U	4.0 U	8.0 U	8.0 U	4.0 U	0.50	2.0 U	4.0 U	8.0 U	8.0 U	0.40 U	4.0 U	0.20 U	0.40 U	0.40 U
4-Ethyltoluene	5.0 U	5.0 U	10 U	10 U	5.0 U	0.25 U	2.5 U	5.0 U	10 U	10 U	0.50 U	5.0 U	0.25 U	0.50 U	0.50 U
4-Methyl-2-pentanone	4.0 U	4.0 U	8.0 U	8.0 U	4.0 U	0.59	2.0 U	4.0 U	8.0 U	8.0 U	0.40 U	4.0 U	0.28	0.40 U	0.40 U
Acetone	1600	31	75	63	4.8 U	0.24 U	20	9.6 U	20 U	20 U	31	9.6 U	13	0.96 U	16
Benzene	14	7.3	8.4	6.4 U	3.2 U	2.5	2.7	3.2 U	6.4 U	6.4 U	0.61	3.2 U	0.63	0.43	0.74
Benzyl chloride	5.2 U	5.2 U	11 U	11 U	5.2 U	0.26 U	2.6 U	5.2 U	11 U	11 U	0.52 U	5.2 U	0.26 U	0.52 U	0.52 U
Bromodichloromethane	6.6 U	6.6 U	14 U	14 U	6.6 U	0.33 U	3.3 U	6.6 U	14 U	14 U	0.66 U	6.6 U	0.33 U	0.66 U	0.66 U
Bromoform	11 U	11 U	21 U	21 U	11 U	0.51 U	5.1 U	11 U	21 U	21 U	1.1 U	11 U	0.51 U	1.1 U	1.1 U
Bromomethane	3.8 U	3.8 U	7.6 U	7.6 U	3.8 U	0.19 U	1.9 U	3.8 U	7.6 U	7.6 U	0.38 U	3.8 U	0.19 U	0.38 U	0.38 U
Carbon disulfide	3.2 U	63	32	20	3.2 U	4.6	1.6 U	3.2 U	6.4 U	6.4 U	4.3	3.2 U	0.17	3.8	0.77
Carbon tetrachloride	6.2 U	6.2 U	13 U	13 U	6.2 U	0.57	3.1 U	6.2 U	13 U	13 U	0.62 U	6.2 U	0.38	0.62 U	0.62 U
Chlorobenzene	4.6 U	4.6 U	9.2 U	9.2 U	4.6 U	0.23 U	2.3 U	4.6 U	9.2 U	9.2 U	0.46 U	4.6 U	0.23 U	0.46 U	0.46 U
Chloroethane	3400	1700	1200	450	42	220	110	94	92	88	9.8	11	1.3	9.9	4.8
Chloroform	27	17	20	17	4.8 U	8.8	12	14	11	11	4.1	5.8	0.49	6.2	6.0
Chloromethane	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	8.2	1.0 U	2.0 U	4.0 U	4.0 U	0.20 U	2.0 U	0.10 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	14000	4700	6300	4200	300	1600	1600	1500	1300	1200	190	280	21	240	180
cis-1,3-Dichloropropene	4.4 U	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	0.44 U
Cyclohexane	3.4 U	3.4 U	6.8 U	6.8 U	3.4 U	0.17 U	1.7 U	3.4 U	6.8 U	6.8 U	0.34 U	3.4 U	0.17 U	0.34 U	0.34 U
Dibromochloromethane	8.6 U	8.6 U	18 U	18 U	8.6 U	0.43 U	4.3 U	8.6 U	18 U	18 U	0.86 U	8.6 U	0.43 U	0.86 U	0.86 U
Dichlorodifluoromethane	5.0 U	5.0 U	10 U	110	5.0 U	2.8	2.5 U	5.0 U	10 U	10 U	2.4	5.0 U	2.2	2.7	1.7
Ethanol	960	81	120	120	17	21	200	96	32	33	39	60	23	62	10
Ethyl acetate	7.3 U	3.6 U	7.2 U	15 U	7.3 U	0.37 U	1.8 U	3.6 U	7.2 U	7.2 U	0.36 U	3.6 U	0.18 U	0.36 U	0.36 U
Ethylbenzene	9.4	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	0.44 U
Hexachlorobutadiene	22 U	22 U	43 U	43 U	22 U	1.1 U	5.3 U	11 U	22 U	22 U	1.1 U	11 U	0.53 U	1.1 U	1.1 U
Hexane	16	4.9	270	7.2 U	3.6 U	2.3	1.9	3.6 U	7.2 U	7.2 U	0.36 U	3.6 U	0.74	0.36 U	0.92
Isopropyl alcohol	610	2.4 U	15	9.9 U	5.0 U	0.25 U	22	5.0 U	9.9 U	9.9 U	2.3	5.0 U	1.0	0.50 U	2.6
m,p-Xylene	25	8.6 U	18 U	18 U	8.6 U	0.43 U	4.3 U	8.6 U	18 U	18 U	0.86 U	8.6 U	0.49	0.86 U	0.86 U
Methyl methacrylate															
Methylene chloride	12	7.0 U	14 U	14 U	19	2.6	7.0 U	14 U	28 U	28 U	1.4 U	14 U	2.6	1.4 U	1.4 U
Methyl-t-butyl ether	3.6 U	3.6 U	7.2 U	7.2 U	3.6 U	0.18 U	1.8 U	3.6 U	7.2 U	7.2 U	0.36 U	3.6 U	0.18 U	0.36 U	0.36 U
n-Heptane	4.0 U	4.0 U	8.0 U	8.0 U	4.0 U	0.20 U	2.0 U	4.0 U	8.0 U	8.0 U	0.40 U	4.0 U	0.20 U	0.40 U	0.40 U
o-Xylene	8.4	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	0.44 U
Propylene (Propene)	3.5 U	100	3.6 U	6.9 U	3.5 U	0.18 U	3.5 U	6.9 U	6.9 U	14 U	0.69 U	6.9 U	0.35 U	0.69 U	0.69 U
Styrene	4.2 U	4.2 U	8.4 U	8.4 U	4.2 U	0.21 U	2.1 U	4.2 U	8.4 U	8.4 U	0.42 U	4.2 U	0.21 U	0.42 U	0.42 U
Tetrachloroethene	140	60	430	540	47	110	110	260	67	72	4.6	200	4.8	45	450
Tetrahydrofuran	77	77	150	180	66	110	1.5 U	96	85	67	15	32	28	43	34
Toluene	36	3.8 U	7.6 U	7.6 U	3.8 U	0.59	3.4	4.7	7.6 U	7.6 U	0.38 U	3.8 U	3.6	0.38 U	0.75
trans-1,2-Dichloroethene	110	61	47	47	4.6	33	29	34	30	26	3.4	4.6	0.36	4.1	3
trans-1,3-Dichloropropene	4.4 U	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	0.44 U
Trichloroethene	36000	17000	26000	13000	1400	6200	4000	3600	4000	4300	390	1400	58	460	1200
Trichlorofluoromethane	9900	2300	1800	1000	98	600	1800	1400	1500	1500	260	230	29	230	210
Trichlorotrifluoroethane	7.6 U	7.6 U	16 U	16 U	7.6 U	0.74	3.8 U	7.6 U	16 U	16 U	0.76 U	7.6 U	0.53	0.76 U	0.76 U
Vinyl acetate	15 U	3.6 U	7.2 U	29 U	15 U	0.71 U	7.1 U	15 U	29 U	29 U	1.5 U	15 U	0.71 U	1.5 U	1.5 U
Vinyl chloride	110	20	10	5.2 U	2.6 U	3.4	1.3 U	2.6 U	5.2 U	5.2 U	0.26 U	2.6 U	0.13 U	0.26 U	0.26 U

	Extraction Well - Large Retail Space														
Parameter (ug/m^3)	EW-COMBINED-052810 5/28/2010	EW-COMBINED-070110 7/1/2010	EW-COMBINED-091610 9/16/2010	EW-COMBINED-120710 12/7/2010	EW-COMBINED-021711 2/17/2011	EW-COMBINED 091511 9/15/2011	EW-Combined-120811 12/8/2011	EW-Combined-030812 3/8/2012	EW-Combined-061412 6/14/2012	EW-Combined-091312 9/13/2012	EW-Combinded-010313 1/13/2013	EW-Combined-031513 3/15/2013	EW-Combined-060713 6/7/2013	EW-Combined-090613 9/6/2013	EW-Combined-121313 12/13/13
1,1,1-Trichloroethane	1700	2000	4700	280	2500	2400	340	1100	1800	2800	1800	610	850	1900	1500
1,1,1,2-Tetrachloroethane						2.5 U		12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.44 U	1.2 U
1,1,2,2-Tetrachloroethane	6.8 U	0.68 U	0.68 U	0.69 U	0.69 U	1.4 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.24 U	0.69 U
1,1,2-Trichloroethane	5.4 U	0.54 U	0.55	0.55 U	0.55 U	1.1 U	0.55 U	2.7 U	0.55 U	0.26	0.55 U	0.55 U	0.55 U	0.19 U	0.55 U
1,1-Dichloroethane	270	290	330	36	170	200	70	78	130	200	99	59	68	150	62
1,1-Dichloroethene	40	52	81	7.3	58	44	21	34	42	15	28	24	38	56	24
1,2,4-Trichlorobenzene	7.4 U	0.74 U	0.74 U	0.74 U	0.74 U	3.0 U	1.5 U	3800	1.5 U	1.5 U	1.5 U	1.5 U	0.74 U	0.26 U	0.74 U
1,2,4-Trimethylbenzene	5.0 U	0.50 U	0.50 U	0.49 U	0.49 U	0.98 U	1.2	4.9 U	0.57	0.24	0.49 U	14	0.49 U	0.21	0.49 U
1,2-Dibromoethane (EDB)	7.6 U	0.76 U	0.76 U	0.77 U	0.77 U	1.5 U	0.77 U	3.8 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.27 U	0.77 U
1,2-Dichlorobenzene	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.60 U	7.3	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.21 U	0.60 U
1,2-Dichloroethane	4.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.81 U	0.40 U	2.0 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.14 U	0.40 U
1,2-Dichloropropane	4.6 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	2.3 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U
1,2-Dichlorotetrafluoroethane	7.0 U	0.70 U	0.70 U												
1,3,5-Trimethylbenzene	5.0 U	0.50 U	0.50 U	0.49 U	0.49 U	0.98 U	0.29	4.9 U	0.15	0.49 U	0.49 U	3.9	0.49 U	0.17 U	0.49 U
1,3-Butadiene	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	2.2 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.078 U	0.22 U
1,3-Dichlorobenzene	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.60 U	6.0 U	0.60 U	0.60 U	0.60 U	1.1	0.60 U	0.21 U	0.60 U
1,4-Dichlorobenzene	6.0 U	0.60 U	0.60 U	0.60 U	0.60 U	1.2 U	0.60 U	6.0 U	0.60 U	0.60 U	0.60 U	0.64	0.60 U	0.21 U	0.60 U
1,4-Dioxane						0.72 U									
2-Butanone	22	22	10	4.5	4.5 B	24 U	1.3	120 U	110	16	2.9	22	5.3	7.6	0.97
2-Hexanone	4.0 U	0.40 U	0.40 U	0.41 U	0.41 U	0.82 U	0.16	4.1 U	0.31	0.41 U	0.41 U	1.4	0.41 U	0.26	0.41 U
4-Ethyltoluene	5.0 U	0.50 U	0.50 U	0.49 U	0.49 U	0.98 U	0.27	4.9 U	0.49 U	0.49 U	0.49 U	3.4	0.49 U	0.17 U	0.49 U
4-Methyl-2-pentanone	4.0 U	0.40 U	0.40 U	0.41 U	0.41 U	0.82 U	0.16	4.1 U	0.38	0.41 U	0.41 U	8.7	0.41 U	0.14 U	0.41 U
Acetone	24	16	6.6	11 B	6.3 B	19 U	6.6	22	19	14	10	75	12	11	6.6
Benzene	5.5	0.84	1.7	0.5	0.72	0.77	0.56	3.2 U	1.0	0.96	0.45	5.0	0.32 U	0.82	0.32 U
Benzyl chloride	5.2 U	0.52 U	0.52 U	0.52 U	0.52 U	1.0 U	0.52 U	5.2 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.18 U	0.52 U
Bromodichloromethane	6.6 U	0.66 U	0.66 U	0.67 U	0.67 U	1.3 U	0.67 U	3.4 U	10	0.67 U	0.67 U	0.67 U	0.67 U	0.24 U	0.67 U
Bromoform	11 U	1.1 U	1.1 U	1.0 U	1.0 U	2.1 U	1.0 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	1.0 U
Bromomethane	3.8 U	0.38 U	0.38 U	0.39 U	0.39 U	0.78 U	0.39 U	3.9 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.14 U	0.39 U
Carbon disulfide	3.2 U	1.1	1.3	0.31 U	0.73	6.2 U	3.1 U	31 U	1.7	3.6	0.43	0.82	3.1 U	0.73	3.1 U
Carbon tetrachloride	6.2 U	0.73	1.1	0.63 U	0.63	1.3 U	0.48	3.1 U	0.50	0.74	0.63 U	0.63 U	0.63 U	0.68	0.63 U
Chlorobenzene	7.2	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.46 U	4.6 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.16 U	0.46 U
Chloroethane	7.2	9.4	17	1	3.6	6.7	2.1	2.6 U	3.0	5.3	1.5	1.1	1.4	3.3	1.2
Chloroform	7.9	8	8.3	1.6	6.9	7.6	2.7	3.2	6.3	8.5	4.7	3.5	2.3	7.0	1.5
Chloromethane	2.0 U	0.20 U	0.20 U	0.21 U	0.21 U	0.41 U	0.21 U	2.1 U	20	0.21 U	0.21 U	0.21 U	0.41 U	0.14 U	0.41 U
cis-1,2-Dichloroethene	260	260	360	28	120	160	38	47	75	150	66	30	24	93	12
cis-1,3-Dichloropropene	4.4 U	0.44 U	0.44 U	0.45 U	0.45 U	0.91 U	0.45 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U
Cyclohexane	3.4 U	0.34 U	0.55	0.34 U	0.34 U	0.69 U	0.34 U	3.4 U	0.34 U	0.34 U	0.34 U	21	0.34 U	0.12 U	0.34 U
Dibromochloromethane	8.6 U	0.86 U	0.86 U	0.85 U	0.85 U	1.7 U	0.85 U	4.3 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.30 U	0.85 U
Dichlorodifluoromethane	5.0 U	2.5	1.6	3	4.1	2.9	2.9	4.9 U	2.9	2.9	2.4	2.5	2.1	11	3.2
Ethanol	19 U	15	1.9 U	8.2	17	15 U	9.2	75 U	7.2	12	19	320	34	30	11
Ethyl acetate	3.6 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	1.2	3.6 U	1.3	0.36 U	0.36 U	110	0.36 U	0.13 U	1.8
Ethylbenzene	4.4 U	0.44 U	0.58	0.43 U	0.43 U	0.87 U	0.58	4.3 U	0.28	0.21	0.43 U	13	0.43 U	0.20	0.43 U
Hexachlorobutadiene	11 U	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	1.1 U	11 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37 U	1.1 U
Hexane	3.6 U	0.44	0.71 U	0.7 U	0.8	28 U	0.66	140 U	0.91	1.5	0.53	6.8	14 U	2.2	1.2
Isopropyl alcohol	2.4 U	0.24 U	0.50 U	0.84	0.25 U	20 U	9.8 U	98 U	3.1	2.9	9.8 U	27	9.8 U	3.4 U	3.0
m,p-Xylene	8.6 U	0.86 U	1.6	0.87 U	0.87 J	1.7 U	1.6	8.7 U	0.51	0.59	0.87 U	34	0.87 U	0.40	0.87 U
Methyl methacrylate					0.41 U	0.82 U	0.41 U	4.1 U	0.41 U	0.41 U	0.41 U	3.5	0.41 U	0.14 U	0.41 U
Methylene chloride	7.0 U	2.10	0.90	0.78	2.9	6.9 U	2.2	8.1	2.3	2.2	2.2	2.4	1.3	4.6	2.1
Methyl-t-butyl ether	3.6 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.24	3.6 U	1.1	0.17	0.36 U	0.36 U	0.36 U	0.17	0.36 U
n-Heptane	4.0 U	0.40 U	0.40 U	0.41 U	0.41 U	0.82 U	0.23	4.1 U	0.41 U	0.41 U	0.41 U	4.4	0.41 U	0.14 U	0.41 U
o-Xylene	4.4 U	0.44 U	0.56	0.43 U	0.43 U	0.87 U	0.69	4.3 U	0.28	0.25	0.43 U	16	0.43 U	0.20	0.43 U
Propylene (Propene)	18 U	1.8 U	0.69 U	1.8	1.7 U	14 U	6.9 U	13	3.8	6.9 U	6.9 U	6.9 U	6.9 U	2.4 U	6.9 U
Styrene	4.2 U	0.42 U	0.42 U	0.43 U	0.43 U	0.85 U	0.21	4.3 U	0.54	0.39	0.43 U	14	0.43 U	0.15 U	0.43 U
Tetrachloroethene	1300	640	750	160	920	440	8.1	170	530	910	850	60	23	250	7.0
Tetrahydrofuran	54	65	31	11	11	21	0.27	8.3	3800	110	1.8	4.1	7.2	10	0.79
Toluene	3.8 U	0.41	3.5	0.38	1.4	0.75 U	2.5	3.8 U	1.4	0.87	0.38 U	74	0.57	0.67	0.38 U
trans-1,2-Dichloroethene	4.6	5.5	6.6	0.6	1.9	3.5	1.1	2.0 U	1.7	1.9	1	0.86	0.62	2.6	0.40 U
trans-1,3-Dichloropropene	4.4 U	0.44 U	0.44 U	0.45 U	0.45 U	0.91 U	0.45 U	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.16 U	0.45 U
Trichloroethene	2000	1700	3200	240	1800	1900	97	730	1500	2600	2000	380	280	1200	160
Trichlorofluoromethane	300	440	410	71	200	610	200	150	260	100	230	130	140	410	200
Trichlorotrifluoroethane	7.6 U	0.76 U	0.76 U	0.77 U	0.77 U	1.5 U	0.89	3.8 U	0.77 U	0.37	0.77 U	0.92	1.4	1.3	0.77 U
Vinyl acetate	3.6 U	0.36 U	0.71 U	0.7 U	0.35 U	0.70 U	0.35 U	7.0 U	1.4	0.70 U	0.70 U	0.70 U	7.0 U	2.5 U	7.0 U
Vinyl chloride	2.6 U	0.26 U	0.40	0.26 U	0.26 U	0.51 U	0.26 U	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.090 U	0.26 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

Parameter (ug/m^3)	Extraction Well - Large Retail Space											
	EW-Combined-030714 03/07/14	EW-Combined-061314 6/13/2014	EW-Combined-091214 9/12/2014	EW-Combined-121914 12/19/2014	EW-Combined-032715 3/27/2015	EW-Combined-061115 6/11/2015	EW-Combined-091615 9/16/2015	EW-combined-121815 12/18/2015	EW-combined-021816 2/18/2016	EW-Combined-080516 8/5/2016	EW-Combined-021017 2/10/2017	EW-Combined-090717 9/7/2017
1,1,1-Trichloroethane	780	770	1300	420	500	1200	3400 E	1600	320	4000	260	530
1,1,1,2-Tetrachloroethane	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U	2.5 U		2.5 U		1.2 U	2.5 U
1,1,2,2-Tetrachloroethane	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	1.4 U	6.9 U	0.69 U	1.4 U
1,1,2-Trichloroethane	0.55 U	0.55 U	1.1 U	0.55 U	0.55 U	0.28 J	1.1 U	1.1 U	1.1 U	5.5 U	0.55 U	1.1 U
1,1-Dichloroethane	53	68	130	55	49	100	190	69	25	360	25	67
1,1-Dichloroethene	27	40	52	14	22	46	160	21	9	160	11	24
1,2,4-Trichlorobenzene	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	1.5 U	1.5 U	1.5 U	7.4 U	0.74 U	1.5 U
1,2,4-Trimethylbenzene	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	0.98 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U
1,2-Dibromoethane (EDB)	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	1.5 U	1.5 U	1.5 U	7.7 U	0.77 U	1.5 U
1,2-Dichlorobenzene	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U
1,2-Dichloroethane	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	0.81 U	0.81 U	0.81 U	4 U	0.4 U	0.81 U
1,2-Dichloropropane	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U
1,2-Dichlorotetrafluoroethane								1.4 U		7 U		
1,3,5-Trimethylbenzene	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	0.98 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U
1,3-Butadiene	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.44 U	0.44 U	0.44 U	2.2 U	0.22 U	0.44 U
1,3-Dichlorobenzene	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U
1,4-Dichlorobenzene	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	1.2 U	1.2 U	1.2 U	6 U	0.6 U	1.2 U
1,4-Dioxane								7.2 U		36 U		
2-Butanone	2.5	5.1	3.3 J	1.4 J	1.2 J	1.2 J	1.3 J	1.5 J	24 U	14 J	0.59 J	2.5 J
2-Hexanone	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.82 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U
4-Ethyltoluene	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	0.98 U	0.98 U	0.98 U	4.9 U	0.49 U	0.98 U
4-Methyl-2-pentanone	0.41 U	0.41 U	0.82 U	0.41 U	0.13 J	0.41 U	0.82 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U
Acetone	15	9.8	19 U	6.2 J	6.1 J	9.5 U	12 J	6.7 J	19 U	39 J	3.7 J	8.7 J
Benzene	0.63	0.66	0.35 J	0.33	0.39	0.36	0.55 J	0.69	0.64 U	3.2 U	0.33	0.51 J
Benzyl chloride	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	1 U	1 U	1 U	5.2 U	0.52 U	1 U
Bromodichloromethane	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	1.3 U	9.1	1.3 U	6.7 U	1.6	1.3 U
Bromoform	1.0 U	1 U	2.1 U	1 U	1 U	1 U	2.1 U	2.1 U	2.1 U	10 U	1 U	2.1 U
Bromomethane	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	0.78 U	0.78 U	0.78 U	3.9 U	0.39 U	0.78 U
Carbon disulfide	3.1 U	0.40	0.52 J	0.33 J	0.24 J	0.37 J	1 J	6.2 U	6.2 U	31 U	3.1 U	6.2 U
Carbon tetrachloride	0.63 U	0.63 U	0.58 J	0.4 J	0.28 J	0.49 J	0.75 J	1.3 U	1.3 U	6.3 U	0.63 U	1.3 U
Chlorobenzene	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.92 U	0.92 U	0.92 U	4.6 U	0.46 U	0.92 U
Chloroethane	1.0	1.5	1.8	0.8	0.4	1	2.7	0.93	0.53 U	8.6	0.3	1.3
Chloroform	3.1	3.4	4.9	3.4	2.5	6.4	4.1	3.1	1.6	20	1.5	4.1
Chloromethane	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	0.83 U	15	0.83 U	4.1 U	5.7	0.83 U
cis-1,2-Dichloroethene	25	30	57	25	21	52	41	20	12	160	7.3	41
cis-1,3-Dichloropropene	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U
Cyclohexane	0.34 U	0.34 U	0.69 U	0.34 U	0.34 U	0.34 U	0.69 U	0.69 U	0.69 U	3.4 U	0.53	0.69 U
Dibromochloromethane	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	1.7 U	8.5 U	0.85 U	1.7 U
Dichlorodifluoromethane	2.4	2.1	2.5	2.7	1.8	2.9	2.6	3.2	2.7	5	1.3	2.2
Ethanol	38	41	15	12	5.2 J	5.1 J	20	18	9.5 J	140	5.9 J	16
Ethyl acetate	1.8	0.36 U	0.72 U	0.36 U	11	1.3	0.72 U	0.72 U	0.72 U	3.6 U	0.36 U	2.5
Ethylbenzene	0.43 U	0.43 U	0.87 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U
Hexachlorobutadiene	1.1 U	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	2.1 U	2.1 U	2.1 U	11 U	1.1 U	2.1 U
Hexane	0.80	14 U	28 U	14 U	7.9 J	14 U	1.6 J	28 U	28 U	140 U	14 U	28 U
Isopropyl alcohol	1.6	1.6	2.7 J	9.8 U	9.8 U	3.8 J	3.7 J	20 U	20 U	98 U	0.66 J	1.6 J
m,p-Xylene	0.57	0.95	1.7 U	0.25 J	0.87 U	0.87 U	1.7 U	1.7 U	1.7 U	8.7 U	0.87 U	1.7 U
Methyl methacrylate	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U		0.82 U		0.82 U		0.41 U	0.82 U
Methylene chloride	1.7	1.1	1.4 J	3.5 U	3.5 U	3.5 U	5.3 J	6.9 U	6.9 U	35 U	3.5 U	6.9 U
Methyl-t-butyl ether	0.36 U	0.36 U	0.72 U	0.36 U	0.2 J	0.2 J	0.72 U	0.72 U	0.72 U	3.6 U	0.36 U	0.72 U
n-Heptane	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.82 U	0.82 U	0.82 U	4.1 U	0.41 U	0.82 U
o-Xylene	0.43 U	0.43 U	0.87 U	0.43 U	0.43 U	0.43 U	0.87 U	0.87 U	0.87 U	4.3 U	0.43 U	0.87 U
Propylene (Propene)	6.9 U	6.9 U	14 U	6.9 U	1.6 J	6.9 U	14 U	14 U	14 U	8.2 J	1.4 J	14 U
Styrene	0.43 U	0.43 U	0.85 U	0.43 U	0.43 U	0.43 U	0.85 U	0.85 U	0.85 U	4.3 U	0.43 U	0.85 U
Tetrachloroethene	260	82	230	100	400	1400	63	86	37	870	66	260
Tetrahydrofuran	1.7	4.7	2.9	0.85	1.2	0.65	0.59 U	0.59 U	0.59 U	9.4	0.29 U	1.2 U
Toluene	1.1	1.8	0.75 U	0.43	0.2 J	0.15 J	1.2	1.3	0.75 U	6.6	0.36 J	1.3
trans-1,2-Dichloroethene	1	1	1	1	1	1.1	0.97	0.79 U	0.79 U	4	0.4 U	1
trans-1,3-Dichloropropene	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.91 U	0.91 U	0.91 U	4.5 U	0.45 U	0.91 U
Trichloroethene	560	560	800	480	490	1300	1200 E	880	200	3200	180	670
Trichlorofluoromethane	98	160	360	200	80	170	340	230	93	1200	88	220
Trichlorotrifluoroethane	0.77 U	0.77 U	0.86 J	0.89	0.54 J	0.89 J	0.89 J	6.1 U	6.1 U	31 U	3.1 U	6.1 U
Vinyl acetate	7.0 U	7.0 U	14 U	7 U	7 U	7 U	14 U	14 U	14 U	70 U	0.56 J	14 U
Vinyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.51	0.51 U	0.51 U	2.6 U	0.26 U	0.51 U

Parameter (ug/m^3)	Extraction Well - Large Retail Space								Post Treatment - Large Retail Space							CT IACTIND 2003 (ug/m^3)
	EW-1-030609 3/6/2009	EW-1-033109 3/31/2009	EW-2-030609 3/6/2009	EW-2-033109 3/31/2009	EW-3-030609 3/6/2009	EW-3-033109 3/31/2009	EW-4-030609 3/6/2009	EW-4-033109 3/31/2009	Post carbon-020309 2/3/2009	POST CARBON-021109 2/11/2009	POST CARBON-021809 2/18/2009	POST CARBON-022609 2/26/2009	POST CARBON-041409 4/14/2009	POST CARBON-100809 10/8/2009	Post-Carbon-010810 1/8/2010	
1,1,1-Trichloroethane	59000	66000	26000	30000	54000	72000	11000	14000	1.0	15	45	1.9	13000	0.56	450	500
1,1,1,2-Tetrachloroethane																1.1
1,1,2,2-Tetrachloroethane	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	1.7 U	6.8 U	0.34 U	1.7 U	0.68 U	0.68 U	68 U	0.34 U	0.34 U	0.14
1,1,2-Trichloroethane	6.4	10	5.4 U	5.4 U	5.4 U	5.4 U	1.4 U	5.4 U	0.27 U	1.4 U	0.54 U	0.54 U	54 U	0.27 U	0.27 U	12
1,1-Dichloroethane	4100	4400	5700	7000	1600	2300	690	1400	0.20 U	1.0 U	5.4	11000	490	370	610	430
1,1-Dichloroethene	570	1200	330	640	340	560	97	210	0.20 U	1.0 U	0.40 U	6400	96	78	87	20
1,2,4-Trichlorobenzene	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	1.9 U	7.4 U	0.37 U	1.9 U	0.74 U	0.74 U	74 U	0.37 U	0.37 U	NA
1,2,4-Trimethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	5.0 U	0.25 U	1.3 U	0.50 U	0.50 U	50 U	0.25 U	0.25 U	52
1,2-Dibromoethane (EDB)	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	7.6 U	0.38 U	1.9 U	0.76 U	0.76 U	76 U	0.38 U	0.38 U	0.038
1,2-Dichlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	6.0 U	0.30 U	1.5 U	0.60 U	0.60 U	60 U	0.30 U	0.30 U	410
1,2-Dichloroethane	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	4.0 U	0.20 U	1.0 U	0.40 U	0.40 U	40 U	0.20 U	0.20 U	0.31
1,2-Dichloropropane	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	4.6 U	0.23 U	1.2 U	0.46 U	0.46 U	46 U	0.23 U	0.23 U	0.42
1,2-Dichlorotetrafluoroethane	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	1.8 U	7.0 U	0.35 U	1.8 U	0.70 U	0.70 U	70 U	0.35 U	0.35 U	NA
1,3,5-Trimethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	5.0 U	2.1	1.3 U	0.50 U	0.50 U	50 U	0.25 U	0.25 U	52
1,3-Butadiene	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.55 U	2.2 U	0.11 U	0.55 U	0.22 U	0.22 U	22 U	0.23 U	0.23 U	NA
1,3-Dichlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	6.0 U	2.9	1.5 U	0.60 U	0.60 U	60 U	0.30 U	0.30 U	410
1,4-Dichlorobenzene	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	1.5 U	6.0 U	0.30 U	1.5 U	0.60 U	0.60 U	60 U	0.30 U	0.30 U	24
1,4-Dioxane																NA
2-Butanone	3.5	8.9	12	11	36	10	36	6.4	10	6.3	9.4	5.5	330	1.9	2.0	500
2-Hexanone	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	4.0 U	0.20 U	1.0 U	0.40 U	0.40 U	13000	0.27	0.34	NA
4-Ethyltoluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3 U	5.0 U	2.1	1.3 U	0.50 U	0.50 U	50 U	0.25 U	0.25 U	NA
4-Methyl-2-pentanone	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	4.0 U	5.0	1.0 U	0.40 U	0.40 U	40 U	0.20 U	0.20 U	200
Acetone	35	16	9.6 U	9.6 U	53	24	26	12	1200	11	19	12	430	3.6	5.7	500
Benzene	5.3	11.0	5.6	7.8	3.2 U	6.8	1.4	3.2 U	1.3	0.80 U	0.32 U	0.32 U	32 U	0.16 U	0.16 U	3.3
Benzyl chloride	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	1.3 U	5.2 U	0.26 U	1.3 U	0.52 U	0.52 U	52 U	0.26 U	0.26 U	NA
Bromodichloromethane	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	1.7 U	6.6 U	0.33 U	1.7 U	0.66 U	0.66 U	66 U	0.33 U	0.33 U	0.46
Bromoform	11 U	11 U	11 U	11 U	11 U	11 U	2.6 U	11 U	0.51 U	2.6 U	1.1 U	1.1 U	110 U	0.51 U	0.51 U	7.3
Bromomethane	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	0.95 U	3.8 U	0.19 U	0.95 U	0.38 U	0.38 U	38 U	0.19 U	0.19 U	NA
Carbon disulfide	3.2 U	3.2 U	27	25	3.2 U	3.2 U	1.8	3.2 U	0.16 U	0.80 U	4.1	27	250	0.16 U	0.20	NA
Carbon tetrachloride	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	1.6 U	6.2 U	0.38	1.6 U	0.62 U	0.62 U	62 U	0.31 U	0.31 U	0.54
Chlorobenzene	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	4.6 U	0.23 U	1.2 U	0.46 U	0.46 U	46 U	0.23 U	0.23 U	200
Chloroethane	170	250	700	590	41	44	17	33	0.13 U	5100	1800	480	64	19	10	500
Chloroform	20	34	9.6	15	13	23	3.6	7.5	0.24 U	1.2 U	0.48 U	0.67	48 U	0.24 U	6.8	0.5
Chloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.50 U	2.0 U	0.59	0.50 U	0.20 U	0.20 U	23	0.10 U	0.10 U	80
cis-1,2-Dichloroethene	2000.0	2200.0	6100.0	7600.0	610.0	1200.0	560.0	1300.0	0.27	1.0 U	3.9	5200	820	230	570	100
cis-1,3-Dichloropropene	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U	0.22 U	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U	2.9
Cyclohexane	3.4 U	5.7	8.4	8.8	3.4 U	3.4 U	0.85 U	3.4 U	0.93	0.85 U	0.34 U	0.34 U	34 U	0.17 U	0.17 U	NA
Dibromochloromethane	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	8.6 U	0.43 U	2.2 U	0.86 U	0.86 U	86 U	0.43 U	0.43 U	NA
Dichlorodifluoromethane	5.0 U	170	5.0 U	5.0 U	5.4	7	2.6	5.0 U	0.76	4.1	3.0	2.4	50 U	1.7	1.9	500
Ethanol	33	40	12	8.3	39	1.8 U	8.6	1.8 U	740	36	25	9.8	110	0.38 U	2.8	NA
Ethyl acetate	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.90 U	3.6 U	0.37 U	0.90 U	0.36 U	0.73 U	73 U	0.18 U	0.18 U	NA
Ethylbenzene	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U	10	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U	290
Hexachlorobutadiene	22 U	22 U	22 U	22 U	22 U	22 U	5.4 U	22 U	1.1 U	5.4 U	2.2 U	2.2 U	220 U	0.53 U	0.53 U	NA
Hexane	3.6 U	3.6 U	3.6 U	6.6	3.6 U	3.6 U	3.2	3.6 U	3.0	0.90 U	46	0.36 U	36 U	0.18 U	0.23	NA
Isopropyl alcohol	28	2.4 U	2.4 U	2.4 U	26	5.9	7.5	7.1	450	2.9	3.1	47	290	0.25 U	1.4	NA
m,p-Xylene	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	8.6 U	27	2.2 U	0.86 U	0.86 U	86 U	0.43 U	0.43 U	500
Methyl methacrylate																NA
Methylene chloride	7.0 U	19	7.0 U	17	7.0 U	13	19	12	20	76	17	3.0	810	0.70 U	0.72	17
Methyl-t-butyl ether	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.90 U	3.6 U	0.18 U	0.90 U	0.36 U	0.36 U	36 U	0.18 U	0.18 U	190
n-Heptane	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	4.0 U	1.8	1.0 U	0.40 U	0.40 U	40 U	0.20 U	0.20 U	NA
o-Xylene	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U	9.5	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U	500
Propylene (Propene)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.45 U	1.8 U	0.18 U	98	0.18 U	0.35 U	35 U	0.35 U	0.35 U	NA
Styrene	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	1.1 U	4.2 U	3.4	1.1 U	0.42 U	0.42 U	42 U	0.21 U	0.21 U	290
Tetrachloroethene	600. [a]	1,200. [a]	2,300. [a]	2,500. [a]	73. [a]	310. [a]	31. [a]	170. [a]	0.72	1.7 U	1.1	0.68 U	68 U	0.52	1.9	5
Tetrahydrofuran	6.3	21	19	3.0 U	32	14	37	5.1	6.8	22	40	18	210	4.1	6.5	NA
Toluene	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.4	3.8 U	29	0.95 U	0.65	0.38 U	38 U	0.19 U	0.36	500
trans-1,2-Dichloroethene	9.2 [a]	23. [a]	69. [a]	180. [a]	4.0 U	8.8 [a]	2.5 [a]	8. [a]	0.20 U	1.0 U	0.40 U	28	40 U	7.7	15	200
trans-1,3-Dichloropropene	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U	0.22 U	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U	2.9
Trichloroethene	31000	42000	25000	25000	8600	19000	2700	5500	2.0	11	16	2.7	54 U	1.0	1.0	1
Trichlorofluoromethane	520	540	1300	1800	430	840	240	370	0.71	1.4 U	23	6700	84	180	210	500
Trichlorotrifluoroethane	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	7.6 U	1.3	1.9 U	0.76 U	0.76 U	76 U	0.38 U	0.51	NA
Vinyl acetate	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.90 U	3.6 U	0.71 U	0.90 U	0.36 U	1.5 U	150 U	0.71 U	0.71 U	NA
Vinyl chloride	2.7	4.8	9.4	8.1	2.6 U	2.6 U	0.65	2.6 U	0.13 U	30	13	4.5	26 U	0.13 U	0.13 U	1.9

Parameter (ug/m^3)	Indoor Air - Large Retail Space												
	IA-1 011609 1/16/2009	IA-1-020309 2/3/2009	IA-1-021109 2/11/2009	IA-1-021809 2/18/2009	IA-1-022609 2/26/2009	IA-1-030609 3/6/2009	IA-1-033109 3/31/2009	IA-1-041409 4/14/2009	IA-1-042409 4/24/2009	IA-1-091709 9/17/2009	IA-1-092409 9/24/2009	IA-1-100109 10/1/2009	IA-1-100809 10/8/2009
1,1,1-Trichloroethane	10	0.56	1.1	0.99	0.35	1.8	1.5	1.4	2.0	0.27 U	0.27 U	0.27 U	0.27 U
1,1,1,2-Tetrachloroethane													
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.71	0.20 U	0.20 U	0.20 U	0.27	0.32	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.38	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.25 U	0.36	0.70	0.77	0.25 U	0.25 U	0.25 U	0.18 U	0.48	0.29	0.35	0.28	0.51
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Butadiene	0.11 U	0.11 U	0.34	0.84	0.11 U	0.11 U	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane													
2-Butanone	20	3.1	5.8	3.4	2.6	2.2	1.3	1.2	4.4	2.0	2.6	2.7	1.3
2-Hexanone	0.20 U	0.20 U	0.60	0.42	0.20 U	0.23	0.20 U	0.14 U	0.48	0.43	0.52	0.73	0.31
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Methyl-2-pentanone	0.20 U	0.20 U	0.43	0.30	0.20 U	0.20 U	0.20 U	0.14 U	0.52	0.21	0.35	0.32	0.20 U
Acetone	18	7.7	19	21	10	8.7	14	12	310	11	18	13	10
Benzene	1.0	0.68	1.9	3.0	0.69	0.87	0.71	0.56	0.78	0.49	0.47	0.39	0.48
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.35	0.41	0.52	**0.55 [a]**	0.46	**0.59 [a]**	0.53	0.31	0.43	0.48	0.38	0.42	0.43
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.1	1.0	1.4	1.5	1.0	1.0	1.2	1.1	1.3	1.1	1.1	0.98	0.95
cis-1,2-Dichloroethene	2.0	0.20 U	1.0	1.1	0.73	1.3	0.50	0.60	1.3	0.20 U	0.20 U	0.83	0.44
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	0.17 U	0.17 U	0.49	0.61	0.17 U	0.17 U	0.17 U	0.12 U	0.34	0.18 U	0.17 U	0.17 U	0.17 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	1.8	2.1	2.6	2.8	2.6	2.6	3.1	2.0	8.3	2.4	2.0	2.3	2.1
Ethanol	5.7	8.3	14	20	9.8	7.5	18	5.0	39	6.2	7.0	6.5	8.8
Ethyl acetate	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.18 U	0.18 U	0.26 U	0.37 U	0.32	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.26	0.28	0.66	0.85	0.23	0.22 U	0.22 U	0.16 U	0.94	0.23	0.23	0.22 U	0.28
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U
Hexane	0.92	0.74	1.2	1.6	1.0	0.51	0.53	0.65	1.7	0.99	1.3	0.41	0.77
Isopropyl alcohol	3.4	3.1	5.3	5.8	3.8	2.0	9.1	0.18 U	240	5.2	5.2	0.25 U	2.7
m,p-Xylene	0.76	0.87	2.1	2.8	0.80	0.43 U	0.63	0.31 U	2.5	0.79	0.91	0.73	1.0
Methyl methacrylate													
Methylene chloride	2.3	**33**	2.3	1.8	4.4	1.1	6.7	3.5	4.8	1.6	3.6	0.70 U	0.70 U
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.23	0.20 U	0.59	0.75	0.20 U	0.20 U	0.20 U	0.14 U	0.67	0.20 U	0.20 U	0.20 U	0.26
o-Xylene	0.26	0.33	0.76	0.99	0.30	0.22 U	0.22 U	0.16 U	0.70	0.31	0.40	0.28	0.40
Propylene (Propene)	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 U	0.35 U
Styrene	0.21 U	0.21 U	0.21	0.28	0.21 U	0.21 U	0.21 U	0.15 U	0.24	0.21 U	0.21 U	0.21 U	0.21 U
Tetrachloroethene	**6.6 [a]**	0.57	4.2	3.2	2.6	4.9	1.5	1.9	**6.1 [a]**	0.34 U	0.34 U	2.0	1.1
Tetrahydrofuran	12	1.2	1.3	0.48	0.32	0.15 U	0.15 U	0.23	0.40	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	1.7	1.4	4	5.7	2.3	0.93	1.7	0.72	5.7	1.3	1.1	0.78	1.2
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	**4.2**	0.46	**1.6**	**1.4**	0.65	**1.5**	0.57	0.74	**1.6**	0.27 U	0.27 U	**1.1**	0.56
Trichlorofluoromethane	2.1	1.4	1.7	3.1	1.6	1.7	1.2	1.2	1.5	1.4	1.3	1.2	1.2
Trichlorotrifluoroethane	0.65	0.64	0.47	0.46	0.67	0.48	0.59	0.54	1.7	0.48	0.44	0.45	0.51
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.50 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Vinyl chloride	0.26	0.13 U	0.22	0.21	0.13 U	0.19	0.13 U	0.10 U	0.16	0.13 U	0.13 U	0.17	0.13 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Large Retail Space																																			
Parameter (ug/m^3)	IA-1-120209 12/2/2009	IA-1-010810 1/8/2010	IA-1-012810 1/28/2010	IA-1-020510 2/5/2010	IA-1-021210 2/12/2010	IA-1-021910 2/19/2010	IA-1-032610 3/26/2010	IA-1-043010 4/30/2010	IA-1-052810 5/28/2010	IA-1-070110 7/1/2010	IA-1-091610 9/16/2010	IA-1-120710 12/7/2010	IA-1-021711 2/17/2011	IA-1-060211 6/2/2011	IA-1 091511 9/15/2011	IA-1-120811 12/8/2011	IA-1-030812 3/8/2012	IA-1-061412 6/14/2012	IA-1-091312 9/13/2012	IA-1-010313 1/3/2013	IA-1-031513 3/15/2013	IA-1-060713 6/7/2013	IA-1-090613 9/6/2013	IA-1-121313 12/13/13	IA-1-030714 03/07/14	IA-1-061314 6/13/2014	IA-1-091214 9/12/2014	IA-1-121914 12/19/2014	IA-1-032715 3/27/2015	IA-1-061115 6/11/2015	IA-1-091615 9/16/2015	IA-1-121815 12/18/2015	IA-1-021816 2/18/2016	IA-1-080516 8/5/2016	IA-1-021017 2/10/2017	IA-1-090717 9/7/2017
1,1,1-Trichloroethane	0.24	0.27 U	0.27 U	0.76	0.30	0.88	0.27 U	1.2	0.33	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.12	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.11	0.19 U	0.2	0.16 J	0.05 J	0.19 U	0.28	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane															0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.35 J	0.44 U	0.44 U	0.44 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.16 U	0.19 U	0.19 U	0.19 U	0.065 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 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	0.061 U	0.14 U	0.14 U	0.14 U	0.082 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.059 U	0.14 U	0.14 U	0.14 U	0.078 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.52 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	0.45 U	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.22 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.52	0.37	0.25 U	0.26	0.25 U	0.25 U	0.25 U	0.25 U	0.40	0.43	0.56	0.25 U	0.55	0.25 U	0.25 U	0.10	0.15 U	0.16	0.55	0.17 U	0.17 U	0.21	0.32	0.17 U	0.52	0.25	0.14 J	0.17 U	0.12 J	0.14 J	0.14 J	0.32	0.74	0.24	0.17 U	0.22
1,2-Dibromoethane (EDB)	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.12 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.18 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
1,2-Dichloroethane	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.056	0.061 U	0.12 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	0.061 U	0.14 U	0.14 U	0.06 J	0.099 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.069 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																					0.25 U		0.25 U		
1,3,5-Trimethylbenzene	0.18	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	0.25 U	0.25 U	0.25 U	0.25 U	0.044	0.15 U	0.059	0.32	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.16	0.17 U	0.068 J	0.17 U	0.041 J	0.069 J	0.059 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.17	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.55	0.078 U	0.066 U	0.078 U	0.048 J	0.078 U	0.13	0.16	0.078 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.18 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
1,4-Dichlorobenzene	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.18 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
1,4-Dioxane															0.18 U																	1.3 U		1.3 U		
2-Butanone	2.7	1.6	0.30 U	2.4	1.1	1.2	1.3	0.78	2.6	3.3	0.85	0.68	1.7 B	2.9 U	5.9 U	1.8	1.2	1.4	3.0	0.87	0.64	2.9	2.0	0.92	1.6	3.1	2.8 J	0.84 J	1.5 J	1.1 J	1.2 J	1.4 J	0.5 J	1.6 J	0.72 J	2.1 J
2-Hexanone	0.71	0.36	0.20 U	0.47	0.20 U	0.27	0.27	0.20 U	0.67	0.75	0.20 U	0.20 U	0.20 U	4.1 U	0.62	0.22	0.26	0.12 U	0.28	0.14 U	0.14 U	0.38	0.27	0.14 U	0.30	0.45	0.25	0.14 U	0.30	0.14 U	0.14 U	0.16	0.14 U	0.14 U	0.14 U	0.32
4-Ethyltoluene	0.18	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	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.15 U	0.071	0.19	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17	0.17 U	0.15 U	0.17 U	0.045 J	0.17 U	0.055 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.34	0.20 U	0.20 U	0.20 U	0.22	0.20 U	0.20 U	0.20 U	0.28	0.35	0.35	0.20 U	0.20 U	0.20 U	0.23	0.39	0.13	0.093	0.26	0.14 U	0.14 U	0.24	0.52	0.14 U	0.23	0.49	0.33	0.14 U	0.14 J	0.08 J	0.14 U	0.21	0.14 U	0.33	0.14 U	0.32
Acetone	13	12	2.0	19	7.3	8.5	7.0	6.5	18	18	11	12 B	15 B	11 B	18	8.0	6.0	12	16	7.0	5.0	21	35	19	13	23	13	9.3	12	7.7	17	12	9.8	15	4.9	14
Benzene	1.1	1.2	0.16 U	0.98	0.64	0.53	0.59	0.64	0.50	0.46	0.8	0.49	1.5	0.25	0.32	0.47	0.34	0.19	0.67	0.51	0.72	0.28	0.75	0.54	2.3	0.46	0.39	0.38	0.53	0.23	0.46	0.98	1	0.27	0.44	0.5
Benzyl chloride	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.078 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.1 U	0.24 U	0.24 U	0.24 U	0.12 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 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	0.12	0.14 U	0.14 U	0.14 U	0.095 J	0.14 U	0.14 U	0.14 U	0.14 U	0.13 J
Carbon disulfide	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.93 U	1.1 U	1.1 U	1.1 U	1.1 U	0.23	0.20	1.1 U	0.21	0.11 J	1.1 U	1.1 U	0.22 J	0.97 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.48	0.43	0.31 U	0.40	0.31 U	0.45	0.44	0.48	**0.55 [a]**	0.52	0.50	0.46	0.47	0.53	**0.57 [a]**	0.49	0.46	0.46	0.39	0.54	0.44	0.53	0.53	0.54	0.41	0.42	0.4	0.29	0.32	0.34	0.49	0.5	0.42	0.4	0.39	0.4
Chlorobenzene	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.069 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.079 U	0.093 U	0.093 U	0.093 U	0.096	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U
Chloroform	0.17 U	0.26	0.24 U	0.47	0.43	0.24 U	0.24 U	0.25	0.24 U	0.24 U	**3.8**	0.24 U	0.24 U	0.24 U	0.24 U	0.085	0.073 U	0.097	0.19	0.17 U	0.17 U	0.17 U	0.20	0.17 U	0.13	0.25	0.27	0.13 J	0.075 J	0.14 J	0.3	**0.67**	0.17 U	0.42	0.17 U	0.16 J
Chloromethane	1.3	1.1	1.4	1.3	1.3	1.2	1.3	0.79	1.2	1.2	1.1	0.97	1.0	0.92	1.3	0.93	1.3	1.6	1.3	0.99	1.1	1.4	1.2	1.0	1.3	1.3	0.8	0.8	1.0	1.2	1.2	1.5	1.0	1.2	1.2	1.2
cis-1,2-Dichloroethene	0.57	0.20 U	0.20 U	0.20 U	0.20 U	0.56	0.20 U	1.3	0.20 U	0.50	0.20 U	1.7	0.20 U	0.20 U	0.20 U	0.15	0.059 U	0.12 U	0.045	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.059 U	0.14 U	0.14 U	0.14 U	0.15	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.068 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.28	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	0.22	0.17 U	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 U	0.27	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.32	0.12 U	0.1 U	0.12 U	0.12 U	0.12 U	0.12 U	0.84	3.3	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.13 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	1.6	3.1	2.4	2.4	2.6	3.0	1.6	2.2	2.3	2.7	1.7	2.0	3.1	1.5	2.0	2.6	2.1	2.7	2.7	2.5	1.7	3.2	1.9	2.4	1.7	2.1	2.2	1.7	1.2	2.3	1.7	2.2	1.4	0.62	1.2	1.5
Ethanol	10	8.4	7.0	29	19	43	4.6	4.4	6.0	6.5	9.0	2.7	9.0	2.8	6.4	2.2	3.2	4.4	8.5	3.1	2.0	26	23	12	22	80	34	29	9.1	11	21	22	51	20	3	15
Ethyl acetate	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.92	0.26	0.57	0.40	0.21	0.33	0.13 U	25	0.34	0.13 U	0.46	0.2	0.57	0.13 U	0.65	0.13 U	0.39	0.13 U	0.13 U	0.38
Ethylbenzene	0.46	0.40	0.22 U	0.32	0.22 U	0.22 U	0.22 U	0.23	0.29	0.27	0.51	0.22 U	0.54	0.22 U	0.22 U	0.14	0.10	0.11	0.47	0.18	0.15 U	0.19	0.35	0.15 U	0.53	0.23	0.17	0.064 J	0.13 J	0.1 J	0.18	0.57	0.22	0.2	0.15 U	0.24
Hexachlorobutadiene	0.75 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	0.78	0.74	0.18 U	0.82	1.3	0.45	0.20	1.1	0.80	0.46	0.61	0.35 U	1.9	0.43	7.0 U	0.39	0.72	0.55	1.3	0.67	0.64	0.79	19	4.9 U	1.2	0.43	0.55 J	0.32 J	5.5	0.35 J	0.68 J	2.2 J	4.4 J	0.51 J	0.29 J	0.3 J
Isopropyl alcohol	1.8	2.4	0.25 U	9.4	0.25 U	1.6	0.65	3.4	0.12 U	0.74	1.4	0.25 U	1.7	1.2 U	4.9 U	2.9 U	0.64	2.9 U	1.9	3.4 U	0.36	3.4 U	3.4 U	2.1	1.9	5.5	4	1.5 J	2 J	2 J	2.3 J	3.4 U	3.4 U	5.1	0.91 J	2.4 J
m,p-Xylene	1.4	1.1	0.43 U	1.0	0.43 U	0.43 U	0.50	0.77	1.1	1.2	1.7	0.43 U	1.6	0.42 J	0.51	0.41	0.22	0.36	1.7	0.79	0.30	0.79	1.0	0.19	1.6	0.86	0.59	0.24 J	0.36	0.34	0.58	3	0.58	0.78	0.15 J	0.92
Methyl methacrylate												0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15	0.14 U	0.14 U	0.14 U	0.15	0.14 U	0.14 U		0.14 U		0.14 U		0.14 U	0.23
Methylene chloride	2.9	0.70 U	1.4	1.5	1.9	0.70 U	0.70 U	0.70 U	0.35 U	1.2	0.56	0.56	4.8	1.3	1.7 U	1.6	3.3	1.2	1.8	1.3	1.9	1.3	**34**	0.68	0.80	0.67	0.9 J	0.26 J	6.00	0.51 J	0.74 J	1.1 J	0.3 J	1 J	0.41 J	0.29 J
Methyl-t-butyl ether	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.11 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.42	0.35	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.36	0.20 U	0.50	0.20 U	0.20 U	0.079	0.12 U	0.093	0.44	0.14 U	0.14 U	0.14 U	0.81	0.14 U	0.67	0.44	0.53	0.14 U	0.15	0.12 J	0.24	0.32	1.1	0.14 U	0.14 U	0.16
o-Xylene	0.52	0.44	0.22 U	0.38	0.22 U	0.22 U	0.22 U	0.28	0.46	0.51	0.69	0.22 U	0.56	0.22 U	0.22 U	0.15	0.096	0.14	0.66	0.25	0.15 U	0.27	0.42	0.15 U	0.62	0.32	0.22	0.064 J	0.14 J	0.13 J	0.22	0.8	0.25	0.28	0.15 U	0.33
Propylene (Propene)	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	1.1	1.7	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.1 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.64 J	0.8 J	1 J
Styrene	0.19	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.25	0.31	0.24	0.21 U	0.21 U	0.21 U	0.21 U	0.85	0.13 U	0.038	0.14	0.15 U	0.15 U	0.15 U	0.27	0.15 U	0.16	0.29	0.11 J	0.15 U	0.15 U	0.042 J	0.12 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Tetrachloroethene	3.2	0.34 U	0.34 U	0.34 U	0.34 U	1.2	0.34 U	4.5	0.55	1.1	0.34 U	3.3	**5.6 [a]**	0.34 U	0.47	0.84	0.21	0.065	2.7	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.21	0.31	0.13	0.3	0.24 U	0.22 J	1.2	**7**	0.32	0.35	0.24 U	0.34
Tetrahydrofuran	0.11 U	0.15 U	0.15 U	0.15 U	0.15 U	0.22	0.15 U	0.15 U	0.15 U	0.24	0.16	0.15 U	0.15 U	0.15 U	0.15 U	0.14	0.088 U	0.088 U	0.10 U	0.10 U	0.10 U	0.10 U	0.27	0.10 U	0.10 U	0.16	0.14	0.1 U	0.1 U	0.1 U	0.099 J	0.1 U	0.1 U	0.1 U	0.1 U	0.083 J
Toluene	2.8	2.1	0.19 U	0.82	0.69	0.58	0.8	1.3	0.91	0.99	2.5	0.44	3	0.58	0.93	1.6	0.3	0.64	2.8	0.47	0.49	1	4.2	0.62	3.2	1.9	2.7	0.58	0.63	0.62	1.3	1.9	0.99	1.2	0.44	1.3
trans-1,2-Dichloroethene	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20 U**	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.059 U	0.14 U	0.14 U	0.14 U	0.053 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.068 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.69	0.27 U	0.27 U	0.27 U	0.31	0.39	0.27 U	**1.5**	0.27 U	0.40	0.27 U	**1.7**	0.27 U	0.27 U	0.27 U	0.25	0.081 U	0.16 U	0.21	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.25	0.19 U	0.081	0.14 J	0.087 J	0.19 U	0.44	0.22	0.28	0.19 U	0.19 U	0.26
Trichlorofluoromethane	1.3	2.5	0.81	1.3	1.5	1.5	1.4	1.2	1.3	1.4	2.7	1.2	1.7	1.1	1.8	1.0	0.89	1.8	1.7	1.6	1.3	1.9	2.4	1.4	1.6	1.4	1.3	1.3	1.1	1.5	1.3	2.1	1	1	1.3	1.2
Trichlorotrifluoroethane	0.52	0.63	0.38 U	0.71	0.63	0.55	0.55	0.48	0.59	0.53	0.48	0.57	0.64	0.67	0.59	0.69	0.40	0.59	0.57	0.55	0.79	1.1	0.63	0.54	0.45	0.57	0.58	0.62	0.47 J	0.63 J	0.87 J	0.6 J	0.44 J	0.48 J	0.55 J	0.46 J
Vinyl acetate	0.25 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.1 U	2.5 U	2.5 U	2.5 U	2.5 U	1 J	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.09 U	0.038 U	0.09 U	0.09 U	0.09 U	0.075 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Large Retail Space																																								
Parameter (ug/m^3)	IA-2 011609 1/16/2009	IA-2- 020309 2/3/2009	IA-2- 021109 2/11/2009	IA-2- 021809 2/18/2009	IA-2- 022609 2/26/2009	IA-2- 041409 4/14/2009	IA-2- 042409 4/24/2009	IA-2- 091709 9/17/2009	IA-2- 092409 9/24/2009	IA-2- 100109 10/1/2009	IA-2- 100809 10/8/2009	IA-2- 012810 1/28/2010	IA-2- 020510 2/5/2010	IA-2- 021210 2/12/2010	IA-2- 021910 2/19/2010	IA-2- 032610 3/26/2010	IA-2- 043010 4/30/2010	IA-2- 091610 9/16/2010	IA-2- 070110 7/1/2010	IA-2- 091610 9/16/2010	IA-2- 120710 12/7/2010	IA-2- 021711 2/17/2011	IA-2- 060211 6/2/2011	IA-2 091511 9/15/2011	IA-2- 120811 12/8/2011	IA-2- 030812 3/8/2012	IA-2- 061412 6/14/2012	IA-2- 091312 9/13/2012	IA-2- 010313 1/3/2013	IA-2- 031513 3/15/2013	IA-2- 060713 6/7/2013	IA-2- 090613 9/6/2013	IA-2- 121313 12/13/13	IA-2- 030714 03/07/14	IA-2- 061314 6/13/2014	IA-2- 091214 9/12/2014	IA-2- 121914 12/19/2014	IA-2- 032715 3/27/2015	IA-2- 061115 6/11/2015	IA-2- 091615 9/16/2015	IA-2- 121815 12/18/2015
1,1,1-Trichloroethane	9.9	0.63	1.1	1.1	0.44	1.4	2.1	0.27 U	0.27 U	0.27 U	0.27 U	0.44	0.73	0.27 U	0.27 U	0.27 U	1.0	0.27 U	0.28	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.13	0.082 U	0.16 U	0.08	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.055 U	0.16 J	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane																								0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U	
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.72	0.20 U	0.20 U	0.20 U	0.32	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 U	0.043	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.41	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.045	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.15	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	0.45 U	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.25 U	0.37	0.70	0.65	0.30	0.18 U	0.25 U	0.29	0.39	0.27	0.52	0.55	0.25 U	0.25 U	0.25 U	0.25 U	0.31	0.35	0.48	0.52	0.25 U	0.52	0.25 U	0.25 U	0.088	0.15 U	0.19	0.48	0.98	0.13	0.43	0.20	0.17 U	0.57	0.27	0.2	0.17 U	0.25	0.23	0.17 U	0.48
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.12 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.063	0.061 U	0.051	0.08	0.16	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.04	0.14 U	0.14 U	0.065 J	0.051 J	0.14 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.11	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																					0.25 U
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.59	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	0.25 U	0.25 U	0.15 U	0.15 U	0.080	0.26	0.28	0.17 U	0.17 U	0.17 U	0.17 U	0.17	0.17 U	0.059 J	0.17 U	0.079 J	0.069 J	0.17 U	0.17 U
1,3-Butadiene	0.11 U	0.11 U	0.30	0.66	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.44	0.11	0.044 U	0.078 U	0.078 U	0.078 U	0.15	0.2
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.08	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.34	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.093	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.063 J	0.097 J	0.21 U	0.21 U
1,4-Dioxane																								0.18 U																	1.3 U
2-Butanone	21	4.1	4.6	3.0	2.9	0.95	1.6	1.1	2.3	0.81	1.0	2.1	0.70	0.44	0.30 U	0.96	1.3	3.1	3.4	0.96	0.36	1.9 B	2.9 U	5.9 U	0.93	0.84	1.4	2.8	5.1	2.4	4.2	2.1	1.2	1.8	1.6	4.9	0.92 J	1.7 J	1.8 J	1.7 J	1.9 J
2-Hexanone	0.20 U	0.20 U	0.35	0.26	0.20 U	0.14 U	0.20 U	0.25	0.54	0.20 U	0.26	0.51	0.20 U	0.20 U	0.20 U	0.20 U	0.26	0.84	0.68	0.20 U	0.20 U	0.24	4.1 U	0.50	0.12 U	0.16	0.15	0.32	0.17	0.22	0.51	0.41	0.14 U	0.39	0.14 U	0.16	0.14 U	0.2	0.12 J	0.14 U	0.18
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 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	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	0.15 U	0.15 U	0.086	0.19	0.24	0.17 U	0.17 U	0.17 U	0.17 U	0.18	0.17 U	0.049 J	0.17 U	0.072 J	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.20 U	0.20 U	0.35	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.39	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28	0.49	0.34	0.20 U	0.20 U	0.20 U	0.24	0.10	0.11	0.12	0.19	3.6	0.14 U	0.54	0.46	0.18	0.57	1.1	1.3	0.14 U	0.84	0.9	1.2	1.1
Acetone	17	9.6	14	18	9.7	13	39	6.2	17	11	8.8	17	7.8	3.1	0.48 U	6.3	8.2	18	20	11	9.8 B	15 B	8.9 B	18	6.2	5.4	14	17	19	46	32	22	32	32	29	37	9.7	40	29	170 E	33
Benzene	1.0	0.67	1.8	3.0	0.77	0.58	0.44	0.41	0.47	0.39	0.54	1.2	0.86	0.67	0.16 U	0.58	0.63	0.47	0.48	0.72	0.48	1.5	0.26	0.30	0.39	0.36	0.24	0.62	0.65	0.91	0.56	0.32	0.66	2.0	0.62	0.30	0.36	0.67	0.39	0.66	1.10
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.22	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.12 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	0.078 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.93 U	1.1 U	1.9	0.47	0.39	0.33	0.17	0.17	0.56	0.49 J	1.1 U	0.29 J	0.39 J	0.41 J	0.26 J
Carbon tetrachloride	0.33	0.41	**0.55 [a]**	**0.57 [a]**	0.48	0.41	0.41	0.44	0.40	0.46	0.42	0.31 U	0.40	0.31 U	0.31 U	0.43	0.47	0.5	0.52	0.50	0.48	0.31 U	**0.62 [a]**	0.52	0.49	0.48	0.45	0.43	**0.56 [a]**	0.45	**0.58**	0.45	0.46	0.41	0.42	0.43	0.37	0.36	0.35	0.32	0.49
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.58	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.14	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.053 U	0.093 U	0.061 J	0.093 U	0.059 J	0.093 U
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.25	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.47	0.40	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**3.4**	0.24 U	0.24 U	0.24 U	0.24 U	0.085	0.073 U	0.14	0.25	0.17 U	0.15	0.17 U	0.17 U	0.37	0.29	**0.53**	**1**	0.13 J	0.41	**0.62**	0.24	0.33
Chloromethane	1.1	1.0	1.3	1.3	1.0	1.1	1.2	0.91	1.1	0.96	0.98	1.2	1.3	1.3	1.4	1.3	0.80	1.20	1.2	1.1	0.96	0.97	0.95	1.2	0.93	1.0	1.4	1.3	1.0	2.7	1.7	0.98	1.1	1.3	1.2	0.71	0.8	1.4	1.3	1.1	1.7
cis-1,2-Dichloroethene	2.1	0.24	1.1	1.1	0.95	0.59	1.6	0.20 U	0.20 U	0.79	0.48	0.58	0.20 U	0.20 U	0.20 U	0.20 U	1.0	0.20 U	0.61	0.20 U	1.7	0.20 U	0.20 U	0.20 U	0.17	0.059 U	0.12 U	0.064	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	0.053 J	0.14 U
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.17 U	0.17 U	0.44	0.61	0.17 U	0.12 U	0.22	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 U	0.17 U	0.17 U	0.20	0.17 U	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 U	0.26	1.9	0.12 U	0.12 U	0.12 U	0.12 U	0.32	0.22	0.069 U	0.12 U	0.12 U	0.12 U	0.14	0.89
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	1.8	2.2	2.6	2.9	2.7	2.1	2.9	2.0	2.1	2.3	2.1	2.2	2.5	2.6	3.0	1.6	2.0	2.4	2.6	1.7	1.9	3.2	1.6	2.0	2.7	2.1	2.7	2.8	2.6	1.7	3.3	1.8	2.6	1.5	2	2.1	1.8	1.4	2.4	1.7	2.4
Ethanol	5.5	8.8	12	17	7.9	4.9	7.5	4.8	6.7	7.8	6.2	14	35	17	20	4.4	4.9	5	7.6	9.0	2.7	10	2.5	8.5	2.1	2.1	10	9.8	8.1	380	66	46	89	130	240	140	27	150	220	51	72
Ethyl acetate	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.26 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.22	0.24	3.5	0.71	0.59	2	0.39	0.28	13	0.36	0.25	0.35	0.17	0.45	0.49	7.5	0.75
Ethylbenzene	0.26	0.28	0.65	0.79	0.30	0.18	0.22 U	0.22 U	0.22	0.22 U	0.31	0.42	0.34	0.22 U	0.22 U	0.22 U	0.23	0.24	0.29	0.46	0.22 U	0.5	0.22 U	0.22 U	0.13	0.13 U	0.13 U	0.41	4.1	0.25	0.39	0.17	0.15 U	0.56	0.27	0.14	0.076 J	0.2	0.15	0.16	0.73
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	0.88	0.57	1.3	1.6	0.69	0.72	0.74	0.41	0.42	0.71	1.0	0.61	0.64	1.4	0.18 U	0.27	1.6	0.51	0.49	0.53	0.35 U	1.6	0.31	7.0 U	0.32	0.34	2.6	2.4	15	2.3	1.6	0.65	4.9	1.2	0.74	0.56 J	0.29 J	5	0.44 J	1.1 J	2.4 J
Isopropyl alcohol	3.7	3.1	4.5	4.5	4.7	5.6	28	340	5.7	3.3	0.25 U	0.25 U	3.6	0.25 U	0.25 U	0.63	3.2	0.12 U	1.2	0.25 U	0.25 U	2.0	1.2 U	4.9 U	2.9 U	0.76	2.9 U	2.8	3.4 U	3.6	3.4 U	1.7	9.7	4.1	3.4 U	4.4	1.5 J	7.3	3.8	5.4	3.4 U
m,p-Xylene	0.76	0.88	2.0	2.6	0.93	0.61	0.63	0.71	0.93	0.78	1.1	1.3	1.1	0.43 U	0.43 U	0.47	0.75	0.96	1.3	1.5	0.43 U	1.5	0.36 J	0.57	0.39	0.18	0.38	1.3	17	0.92	1.4	0.48	0.25	1.6	0.88	0.44	0.31	0.61	0.45	0.32	4
Methyl methacrylate																					0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 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	0.082 U	0.14 U	0.14 U		0.14 U	
Methylene chloride	2.0	**30**	4.0	1.6	1.8	4.0	4.2	0.70 U	0.70 U	0.70 U	0.70 U	1.4	0.90	1.9	0.70 U	0.70 U	0.70 U	0.35 U	1.3	0.53	0.61	4.2	1.0	7.5	1.1	1.2	6.6	6.4	1.1	3.6	1.5	1.1	7.7	0.65	0.65	0.56 J	0.27 J	0.6 J	0.45 J	0.59 J	1.1 J
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.18	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.072 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.23	0.20 U	0.58	0.73	0.22	0.15	0.20 U	0.20 U	0.20 U	0.20 U	0.34	0.83	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.8	0.34	0.20 U	0.48	0.20 U	0.20 U	0.091	0.12 U	0.11	0.40	3.1	0.33	0.41	0.2	0.14 U	0.64	0.39	0.18	0.14 U	0.21	0.2	0.35	0.41
o-Xylene	0.30	0.34	0.76	0.89	0.34	0.22	0.22	0.27	0.42	0.30	0.44	0.46	0.40	0.22 U	0.22 U	0.22 U	0.29	0.44	0.57	0.63	0.22 U	0.56	0.22 U	0.23	0.14	0.083	0.17	0.55	5.1	0.33	0.52	0.2	0.15 U	0.66	0.34	0.17	0.088 J	0.25	0.19	0.1 J	0.98
Propylene (Propene)	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	2.4 U	2.4 U	2.4 U	2.4 U	0.7	2.4 U	2.4 U	2.7	1.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.21 U	0.21 U	0.21 U	0.23	0.21 U	0.15 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.41	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.25	0.36	0.24	0.21 U	0.21 U	0.21 U	0.21 U	0.059	0.13 U	0.097	0.19	0.45	0.12	0.15 U	0.17	0.15 U	0.20	0.35	0.40	0.15 U	0.18	0.23	0.15 U	0.22
Tetrachloroethene	**7.5 [a]**	0.64	4.2	3.2	3.3	2.2	**7.6 [a]**	0.34 U	0.35	1.7	1.0	2.3	0.34 U	0.34 U	0.34 U	0.34 U	3.6	0.43	1.4	0.34 U	3.2	**5.2 [a]**	0.34 U	0.45	0.92	0.23	0.090	2.0	0.24	0.18	0.64	0.25	0.24 U	0.28	0.34	0.13	0.32	0.65	0.4	0.41	0.67
Tetrahydrofuran	12	1.2	1.2	0.49	0.41	0.21	0.28	0.15 U	0.15 U	0.15 U	0.15 U	1.6	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.27	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.097	0.088 U	0.048	0.10 U	0.24	0.10 U	0.10 U	0.10 U	0.10 U	0.058	0.12	0.09	0.1 U	0.3	0.12	0.11	0.1 U
Toluene	1.7	1.3	4	5.5	2.3	1	1.2	1.1	1.1	1.2	1.5	2.4	0.93	0.64	0.19 U	0.8	1.3	0.91	1.3	2.2	0.41	2.9	0.55	0.99	1.6	0.24	0.9	2.6	5.6	1.5	2.8	1.3	1	3.20	1.90	1.60	0.64	1.40	1.30	4.70	3.00
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20 U**	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.04 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	**4.4**	0.56	**1.6**	**1.4**	0.91	0.77	**1.9**	0.27 U	0.27 U	0.99	0.57	0.79	0.27 U	0.27 U	0.27 U	0.27 U	**1.2**	0.27 U	0.53	0.27 U	**1.7**	0.27 U	0.27 U	0.27 U	0.27	0.081 U	0.16 U	0.20	0.19 U	0.053	0.19 U	0.19 U	0.19 U	0.23	0.19 U	0.064	0.14 J	0.079 J	0.19 U	0.44	0.19 U
Trichlorofluoromethane	2.0	1.2	1.7	2.8	1.6	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.1	1.4	1.3	1.3	1.6	2.5	1.2	1.8	1.2	1.9	1.1	0.94	1.8	2.6	2.7	1.3	2.0	1.3	1.6	1.2	1.3	1.3	1.4	1.3	1.5	1.2	2.3
Trichlorotrifluoroethane	0.69	0.58	0.49	0.46	0.64	0.56	0.74	0.50	0.47	0.46	0.54	0.46	0.53	0.61	0.38 U	0.51	0.44	0.53	0.94	0.45	0.59	0.71	0.71	0.61	0.71	0.42	0.57	0.64	0.56	0.70	1.7	0.60	0.57	0.46	0.54	0.56	0.63	0.48 J	0.62 J	0.54 J	0.59 J
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.50 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.27	0.13 U	0.18	0.20	0.13 U	0.10 U	0.18	0.13 U	0.13 U	0.16	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.09 U	0.026 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Large Retail Space																																								
Parameter (ug/m^3)	IA-2-021816 2/18/2016	IA-2-080516 8/5/2016	IA-2-021017 2/10/2017	IA-2-090717 9/7/2017	IA-3 011609 1/16/2009	IA-3-020309 2/3/2009	IA-3-021109 2/11/2009	IA-3-021809 2/18/2009	IA-3-022609 2/26/2009	IA-3-041409 4/14/2009	IA-3-042409 4/24/2009	IA-3-091709 9/17/2009	IA-3-092409 9/24/2009	IA-3-100109 10/1/2009	IA-3-100809 10/8/2009	IA-3-012810 1/28/2010	IA-3-020510 2/5/2010	IA-3-021210 2/12/2010	IA-3-021910 2/19/2010	IA-3-032610 3/26/2010	IA-3-043010 4/30/2010	IA-3-052810 5/28/2010	IA-3-070110 7/1/2010	IA-3-091610 9/16/2010	IA-3-120710 12/7/2010	IA-3-021711 2/17/2011	IA-3-060211 6/2/2011	IA-3 091511 9/15/2011	IA-3-120811 12/8/2011	IA-3-030812 3/8/2012	IA-3-061412 6/14/2012	IA-3-091312 9/13/2012	IA-3-010313 1/3/2013	IA-3-031513 3/15/2013	IA-3-060713 6/7/2013	IA-3-090613 9/6/2013	IA-3-121313 12/13/13	IA-3-030714 03/07/14	IA-3-061314 6/13/2014	IA-3-091214 9/12/2014	IA-3-121914 12/19/2014
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	9.8	0.57	1.1	1.1	0.28	1.5	2.2	0.27 U	0.27 U	0.27 U	0.27 U	0.45	0.71	0.29	0.86	0.27 U	1.2	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.11	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19	0.16 J
1,1,1,2-Tetrachloroethane	0.44 U		0.44 U	0.44 U																								0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.46	0.44 U	0.44 U	0.44 U	0.25 U	0.44 U
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.069 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.11 U	0.19 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.68	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 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	0.04 U	0.14 U
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.35	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.04 U	0.14 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	0.45 U	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.15 U	0.26 U
1,2,4-Trimethylbenzene	0.27	0.21	0.17 U	0.17	0.25 U	0.36	0.68	0.61	0.25 U	0.18 U	0.25 U	0.29	0.40	0.25 U	0.39	0.44	0.25 U	0.25 U	0.25 U	0.25 U	0.26	0.34	0.46	0.60	0.25 U	0.49	0.25 U	0.25 U	0.071	0.10	0.19	0.47	0.17 U	0.076	0.26	0.33	0.17 U	0.53	0.23	0.32	0.12 J
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.077 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.12 U	0.21 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.056	0.061 U	0.051	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.032 J	0.14 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U
1,2-Dichlorotetrafluoroethane		0.25 U			0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U																	
1,3,5-Trimethylbenzene	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.42	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	0.25 U	0.25 U	0.15 U	0.15 U	0.074	0.22	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.069 J	0.17 U
1,3-Butadiene	0.078 U	0.078 U	0.087	0.078 U	0.11 U	0.11 U	0.3	0.77	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.55	0.078 U	0.044 U	0.078 U
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 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	0.12 U	0.21 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.059	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.068 J
1,4-Dioxane		1.3 U																										0.18 U													
2-Butanone	1.3 J	1.3 J	0.74 J	2.2 J	20	4.2	4.6	4.0	1.7	1.6	2.5	2.0	2.6	0.70	1.5	1.9	2.0	1.2	1.6	0.51	1.0	2.2	3.3	0.95	0.39	0.76 B	2.9 U	5.9 U	1.2	0.45	2.4	2.7	0.93	2.2	2.0	2.9	0.66	1.1	1.5	2.1 J	1.1 J
2-Hexanone	0.2	0.14 U	0.14 U	0.37	0.20 U	0.26	0.33	0.3	0.20 U	0.14 U	0.38	0.51	0.58	0.20 U	0.37	0.52	0.39	0.22	0.39	0.20 U	0.29	0.52	0.67	0.20 U	0.20 U	0.20 U	4.1 U	0.24	0.093	0.12 U	0.33	0.22	0.14 U	0.32	0.28	0.31	0.14 U	0.14 U	0.14 U	0.21	0.14 U
4-Ethyltoluene	0.17 U	0.17 U	0.17 U	0.17 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 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	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	0.15 U	0.15 U	0.074	0.15	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.18	0.17 U	0.051 J	0.059 J
4-Methyl-2-pentanone	0.39	1.4	0.14 U	2	0.20 U	0.20 U	0.29	0.34	0.20 U	0.14 U	0.22	0.20 U	0.42	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.38	0.34	0.20 U	0.20 U	0.20 U	0.20 U	0.084	0.12 U	0.19	0.21	0.14 U	0.14 U	0.19	0.36	0.14 U	0.17	0.35	0.26	0.27
Acetone	26	36	8.8	31	18	12	17	24	9.7	7.5	50	11	19	6.7	11	14	21	6.7	7.3	3.8	7.7	15	21	11	9.7 B	9.7 B	11 B	13	7.2	3.9	13	12	6.7	12	28	16	14	11	15	42	29
Benzene	0.52	0.25	0.49	0.55	1.0	0.71	1.9	3.1	0.69	0.6	0.46	0.41	0.5	0.39	0.46	1.3	0.86	0.67	0.53	0.6	0.67	0.47	0.51	0.72	0.47	1.4	0.29	0.30	0.39	0.35	0.23	0.66	0.53	0.75	0.23	0.75	0.54	2.4	0.41	0.29	0.5
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.18 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.052 U	0.18 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.067 U	0.24 U
Bromoform	0.36 U	0.36 U	0.36 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.21 U	0.36 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.31	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.16	0.099	0.14 U
Carbon disulfide	0.13 J	0.34 J	1.1 U	0.34 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.93 U	1.1 U	1.1 U	1.1 U	1.1 U	0.25	1.1 U	1.1 U	0.15	0.16 J	0.24 J
Carbon tetrachloride	0.38	0.4	0.45	0.41	0.34	0.45	0.52	**0.6 [a]**	0.43	0.22 U	0.42	0.4	0.43	0.4	0.42	0.31 U	0.42	0.31 U	0.43	0.43	0.49	0.54	**0.57 [a]**	0.41	0.45	**0.6 [a]**	**0.64 [a]**	0.51	0.50	0.49	0.43	0.38	0.32	0.39	0.42	0.47	0.47	0.45	0.44	0.42	0.34
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.19 U	0.13 U	0.13 U	0.43	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.098	0.093 U	0.093 U	0.093 U	0.093 U	0.053 U	0.093 U
Chloroform	0.21	**0.73**	0.17 U	**0.68**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**0.53**	0.48	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**3.7**	0.24 U	0.24 U	0.24 U	0.24 U	0.079	0.073 U	0.15	0.19	0.17 U	0.075	0.17 U	0.21	0.17 U	0.17 U	0.24	0.28	0.4
Chloromethane	0.97	1.4	1.3	1.4	1.1	0.98	1.2	1.4	1.1	1.2	1.2	0.91	1.1	0.97	1.0	1.2	2.9	1.3	1.2	1.1	0.85	1.2	1.2	1.1	0.98	0.97	1.2	1.4	0.84	1.1	1.4	1.3	0.95	1.3	1.3	1.1	1.0	1.3	1.2	0.7	0.9
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	1.9	0.20 U	1.1	1.1	0.55	0.61	1.5	0.20 U	0.20 U	0.94	0.49	0.59	0.20 U	0.20 U	0.59	0.20 U	1.3	0.20 U	0.51	0.20 U	1.7	0.20 U	0.20 U	0.20 U	0.17	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.19	0.14 U	0.14 U	0.14 U	0.04 U	0.46
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U
Cyclohexane	0.15	0.12 U	0.12 U	0.12 U	0.17 U	0.17 U	0.46	0.6	0.17 U	0.15	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 U	0.17 U	0.17 U	0.17 U	0.18	0.17 U	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 U	0.27	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.34	0.12 U	0.069 U	0.12 U
Dibromochloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.085 U	0.3 U
Dichlorodifluoromethane	1.5	0.63	0.95	1.4	1.9	2.3	2.5	2.9	2.6	2.0	2.9	2.1	2.1	2.2	2.2	2.3	2.5	2.5	3.0	1.6	2.1	2.5	2.7	1.5	2.1	3.1	2.1	1.8	2.6	2.1	2.8	2.8	2.5	1.8	2.7	1.8	2.7	1.5	2.1	2.2	1.8
Ethanol	110	180	48	320	5.5	9.2	13	18	7.9	4.2	9.0	6.2	7.5	4.5	5.0	13	40	17	38	3.6	5.3	5.5	7.0	8.0	2.4	9.4	3.6	5.8	2.1	2.2	4.4	6.6	2.7	2.5	21	27	11	24	64	41	580
Ethyl acetate	0.13 U	0.39	0.23	1.6	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.26 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.73	0.37	0.51	0.68	0.44	0.28	0.34	2.6	2.5	0.13 U	0.25	0.47
Ethylbenzene	0.2	0.16	0.15 U	0.19	0.25	0.29	0.64	0.77	0.22 U	0.16	0.22 U	0.22 U	0.23	0.22 U	0.24	0.43	0.22 U	0.22 U	0.22 U	0.22 U	0.26	0.23	0.29	0.47	0.22 U	0.47	0.36	0.22 U	0.12	0.11	0.14	0.42	0.27	0.098	0.18	0.36	0.15 U	0.55	0.22	0.17	0.14 J
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.37 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.21 U	0.37 U
Hexane	0.4 J	0.47 J	0.27 J	0.39 J	0.94	0.87	1.3	1.9	3.7	0.37	0.77	0.96	0.47	0.37	0.71	0.55	0.44	1.0	0.29	0.19	1.4	0.55	0.45	0.58	0.35 U	1.5	2.6	7.0 U	0.35	0.37	0.74	1.4	0.89	1.0	0.68	0.94	0.76	2.1	0.44	0.43 J	0.41 J
Isopropyl alcohol	2.3 J	12	1.6 J	14	3.5	4.1	5.5	4.9	3.1	0.18 U	33	180	5.9	0.25 U	0.25 U	0.25 U	9.9	0.25 U	2.0	0.64	3.4	0.12 U	0.76	8.8	1.1	1.7	1.2 U	4.9 U	2.9 U	0.56	2.9 U	1.7	0.57	0.62	3.4 U	3.4 U	1.9	2.1	5.2	4.8	7.7
m,p-Xylene	0.59	0.5	0.29 J	0.69	0.75	0.9	2.0	2.6	0.65	0.57	0.66	0.70	0.99	0.65	0.87	1.2	0.69	0.43 U	0.43 U	0.46	0.80	0.99	1.3	1.6	0.43 U	1.4	0.55	0.54	0.38	0.24	0.40	1.5	1.0	0.31	0.72	1.1	0.19	1.6	0.84	0.62	0.58
Methyl methacrylate	0.14 U		0.14 U	0.14 U																					0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.18	0.14 U	0.14 U	0.14 U	0.16	0.14 U
Methylene chloride	0.31 J	0.43 J	0.23 J	0.3 J	2.2	**31**	3.1	3.5	**33**	1.2	3.6	2.4	0.70 U	0.70 U	0.70 U	1.4	0.70 U	2.3	0.70 U	0.70 U	0.70 U	0.35 U	1.2	0.57	0.55	4.6	8.0	1.7 U	1.5	1.1	1.3	2.7	3.3	2.1	1.1	1.2	1.3	2.2	0.77	0.58 J	0.29 J
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.22	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.072 U	0.13 U
n-Heptane	0.62	0.36	0.14 U	0.26	0.22	0.20 U	0.61	0.77	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.24	0.73	0.20 U	0.20 U	0.20 U	0.20 U	0.36	0.20 U	0.20 U	0.32	0.20 U	0.44	0.20 U	0.20 U	0.074	0.12 U	0.11	0.41	0.14 U	0.083	0.15	0.83	0.14 U	0.65	0.43	0.52	0.14 U
o-Xylene	0.23	0.19	0.15 U	0.24	0.28	0.33	0.79	0.86	0.23	0.22	0.24	0.26	0.45	0.27	0.34	0.44	0.26	0.22 U	0.22 U	0.22 U	0.32	0.43	0.58	0.64	0.22 U	0.48	0.23	0.23	0.13	0.11	0.16	0.57	0.35	0.13	0.26	0.46	0.15 U	0.62	0.30	0.22	0.18
Propylene (Propene)	2.4 U	2.4 U	2.4 U	2.4 U	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	1.3	1.8	2.4 U	1.1	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	1.8	2.4 U
Styrene	0.15 U	0.25	0.15 U	0.34	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.15 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.40	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.23	0.34	0.26	0.21 U	0.21 U	0.21 U	0.21 U	0.041	0.13 U	0.10	0.14	0.15 U	0.15 U	0.15 U	0.3	0.15 U	0.18	0.16	0.15	0.12 J
Tetrachloroethene	0.24 U	0.32	0.33	0.47	**6.1 [a]**	0.56	4.3	3.3	1.9	2.2	**7.1 [a]**	0.34 U	0.34 U	2.0	1.1	2.2	0.34 U	0.34 U	1.3	0.34 U	4.8	0.35	1.1	0.76	3.2	**5.2 [a]**	0.34 U	0.47	0.91	0.23	0.16	2.3	0.25	0.095	0.30	0.24 U	0.24 U	0.24 U	0.30	0.12	1.90
Tetrahydrofuran	0.1 U	0.1 U	0.1 U	0.12 J	12	1.1	1.3	0.49	0.15 U	0.24	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.40	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16	0.24	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.08	0.088 U	0.088 U	0.072	0.10 U	0.10 U	0.14	0.73	0.10 U	0.10 U	0.13	0.16	0.1 U
Toluene	3.10	1.50	1.30	1.80	1.7	1.5	4.7	5.8	2.1	1	1.2	1.2	1.1	0.73	1.1	2.50	0.78	0.61	0.46	0.81	1.5	0.93	1.1	2.3	0.41	2.7	0.58	0.95	1.5	0.27	0.72	2.8	0.62	0.56	0.9	4.6	0.66	3.4	1.8	2.5	1.3
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.20 U**	0.20 U	0.20 U	0.12 U	0.059 U	0.12 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	0.04 U	0.14 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U
Trichloroethene	0.19 U	0.19 U	0.19 U	0.19 U	**3.9**	0.49	**1.7**	**1.5**	0.53	0.77	**1.8**	0.27 U	0.27 U	**1.1**	0.54	0.75	0.27 U	0.27 U	0.40	0.27 U	**1.5**	0.27 U	0.47	0.27 U	**1.7**	0.27 U	0.27 U	0.27 U	0.25	0.081 U	0.16 U	0.17	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.26	0.19 U	0.075	0.64
Trichlorofluoromethane	1.2	1	1.3	1.2	1.9	1.3	1.8	2.8	1.8	1.2	1.3	1.4	1.2	1.2	1.2	1.2	1.3	1.4	1.6	1.3	1.2	1.3	1.5	2.8	1.2	1.7	1.6	1.7	1.0	0.92	1.6	1.5	1.2	1.3	1.5	1.6	1.4	1.7	1.4	1.3	1.3
Trichlorotrifluoroethane	0.55 J	0.49 J	0.53 J	0.46 J	0.60	0.58	0.49	0.44	0.69	0.53	0.74	0.51	0.46	0.49	0.47	0.49	0.52	0.57	0.52	0.57	0.45	0.52	0.54	0.45	0.55	0.67	0.74	0.54	0.69	0.44	0.56	0.54	0.59	0.65	0.65	0.62	0.61	0.51	0.59	0.57	0.63
Vinyl acetate	2.5 U	2.5 U	2.5 U	2.5 U	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.50 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.35 U	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.4 U	2.5 U
Vinyl chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.23	0.13 U	0.19	0.21	0.13 U	0.10 U	0.17	0.13 U	0.13 U	0.18	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.14	0.13 U	0.13 U	0.13 U	0.13	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.09 U	0.026 U	0.09 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

Indoor Air - Large Retail Space

Parameter (ug/m^3)	IA-3-032715 3/27/2015	IA-3-061115 6/11/2015	IA-3-091615 9/16/2015	IA-3-121815 12/18/2015	IA-3-021816 2/18/2016	IA-3-080516 8/5/2016	IA-3-021017 2/10/2017	IA-3-090717 9/7/2017
1,1,1-Trichloroethane	0.05 J	0.19 U	0.092 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.12 J	0.13 J	0.13 J	0.17 U	0.17 U	0.26	0.17 U	0.21
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.14 U	0.057 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane				0.25 U		0.25 U		
1,3,5-Trimethylbenzene	0.038 J	0.079 J	0.041 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.045 J	0.078 U	0.062 J	0.17	0.078 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane				1.3 U		1.3 U		
2-Butanone	1.4 J	1.5 J	0.96 J	0.99 J	0.8 J	2.3 J	0.62 J	2.5 J
2-Hexanone	0.27	0.14	0.14 U	0.14 U	0.14 U	0.47	0.14 U	0.31
4-Ethyltoluene	0.086 J	0.045 J	0.066 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.15	0.13 J	0.14 U	0.24	0.14 U	0.14 U	0.14 U	0.39
Acetone	11	10	15	9.9	8.5	19	4.9	14
Benzene	0.5	0.28	0.43	1.1	0.55	0.62	0.43	0.5
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14
Carbon disulfide	1.1 U	0.092 J	0.13 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Carbon tetrachloride	0.36	0.36	0.39	0.53	0.41	0.43	0.42	0.39
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U
Chloroform	0.065 J	0.14 J	0.21	0.28	0.17 U	**0.55**	0.17 U	0.16 J
Chloromethane	1.0	1.7	1.1	1.4	1.0	1.4	1.2	1.2
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.11 J	0.15	0.14 U	0.14 U	0.14 U	0.14 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.12 U	0.12 U	0.12 U	1	0.12 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	1.4	2.3	1.6	2.4	1.6	0.64	0.87	1.4
Ethanol	8.7	16	25	14	61	21	2.8	16
Ethyl acetate	0.27	0.13 U	4.5	0.13 U	1.1	0.13 U	0.83	0.22 J
Ethylbenzene	0.13 J	0.12 J	0.15 J	0.41	0.15 U	0.22	0.15 U	0.22
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	5.1	0.45 J	0.72 J	1.9 J	0.49 J	0.59 J	0.23 J	0.64 J
Isopropyl alcohol	1.9 J	0.87 J	2.1 J	3.4 U	3.4 U	5.4	0.93 J	2.5 J
m,p-Xylene	0.37	0.39	0.5	1.7	0.42	0.81	0.15 J	0.9
Methyl methacrylate	0.14 U		0.14 U		0.14 U		0.14 U	0.26
Methylene chloride	2.1	0.54 J	0.73 J	1.2	0.69 J	0.71 J	0.29 J	0.29 J
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.13 J	0.19	0.17	0.39	0.2	0.22	0.14 U	0.44
o-Xylene	0.14 J	0.14 J	0.19	0.41	0.17	0.29	0.15 U	0.29
Propylene (Propene)	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	0.87 J	0.69 J	1.1 J
Styrene	0.15 U	0.033 J	0.087 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Tetrachloroethene	0.24 U	0.26	0.2 J	**13.00**	0.24 U	0.50	0.24 U	0.30
Tetrahydrofuran	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.18	0.1 U	0.075 J
Toluene	0.63	0.77	1.3	1.6	1	1.2	0.43	1.3
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.072 J	0.19 U	0.22	0.64	0.19 U	0.19 U	0.19 U	0.24
Trichlorofluoromethane	1	1.7	1.3	1.6	1.2	1	1.3	1.1
Trichlorotrifluoroethane	0.47 J	0.69 J	0.55 J	0.59 J	0.54 J	0.56 J	0.59 J	0.44 J
Vinyl acetate	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.98 J
Vinyl chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

Parameter (ug/m^3)	IA-4 011609 1/16/2009	IA-4-020309 2/3/2009	IA-4-021109 2/11/2009	IA-4-021809 2/18/2009	IA-4-022609 2/26/2009	IA-4-041409 4/14/2009	IA-4-042409 4/24/2009	IA-4-091709 9/17/2009	IA-4-092409 9/24/2009	IA-4-100109 10/1/2009	IA-4-100809 10/8/2009
1,1,1-Trichloroethane	10	0.62	1.1	1.1	0.45	1.5	2.2	0.27 U	0.27 U	0.27 U	0.27 U
1,1,1,2-Tetrachloroethane											
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.73	0.20 U	0.20 U	0.20 U	0.31	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.42	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.26	0.37	0.74	0.65	0.29	0.18 U	0.25 U	0.25 U	0.41	0.28	0.41
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Butadiene	0.11 U	0.11 U	0.33	0.77	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane											
2-Butanone	21	4.4	6.0	3.2	2.5	1.1	1.6	1.5	2.0	1.3	1.2
2-Hexanone	0.20 U	0.33	0.73	0.39	0.20 U	0.14 U	0.20 U	0.29	0.45	0.32	0.27
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Methyl-2-pentanone	0.20 U	0.20 U	0.43	0.28	0.20 U	0.14 U	0.20 U	0.20 U	0.32	0.20 U	0.20 U
Acetone	17	10	15	20	7.8	7.9	20	9.3	16	9.3	10
Benzene	1.1	0.68	1.8	3.0	0.76	0.59	0.44	0.40	0.43	0.37	0.48
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.40	0.43	0.50	**0.58 [a]**	0.46	0.22 U	0.45	0.41	0.40	0.46	0.40
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.13 U	0.13 U	0.41	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.26	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.2	0.99	1.4	1.3	1.0	1.1	1.2	0.90	1.1	1.0	1.0
cis-1,2-Dichloroethene	2.4	0.20 U	1.1	1.1	0.98	0.61	1.7	0.20 U	0.20 U	0.84	0.48
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	0.17 U	0.17 U	0.44	0.64	0.17 U	0.12 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	1.9	2.2	2.5	2.8	2.6	2.1	2.4	2.1	2.0	2.2	2.2
Ethanol	5.3	8.9	12	18	8.0	5.2	5.5	6.0	6.5	4.9	5.6
Ethyl acetate	0.37 U	0.37 U	0.18 U	0.19	0.37 U	0.26 U	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.25	0.29	0.65	0.78	0.29	0.16	0.22 U	0.22 U	0.27	0.22 U	0.26
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U
Hexane	0.90	0.66	1.2	1.7	0.66	0.43	0.34	0.42	2.2	0.49	0.93
Isopropyl alcohol	3.5	3.3	4.7	4.8	3.9	0.18 U	13	5.6	5.2	0.25 U	0.25 U
m,p-Xylene	0.76	0.89	2.1	2.6	0.89	0.58	0.49	0.61	0.93	0.69	1.0
Methyl methacrylate											
Methylene chloride	2.3	**29**	1.7	2.5	1.3	1.9	2.2	0.70 U	9.7	0.70 U	0.70 U
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.23	0.20 U	0.58	0.79	0.21	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.26
o-Xylene	0.27	0.33	0.78	0.87	0.33	0.22	0.22 U	0.22 U	0.42	0.28	0.4
Propylene (Propene)	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 U	0.35 U
Styrene	0.21 U	0.21 U	0.22	0.23	0.21 U	0.15 U	0.21 U	0.21 U	0.21	0.21 U	0.21 U
Tetrachloroethene	**7.3 [a]**	0.58	4.4	3.4	3.4	2.4	**7.9 [a]**	0.75	0.34 U	2.0	1.1
Tetrahydrofuran	13	1.2	1.3	0.47	0.34	0.21	0.25	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	1.8	1.3	4.3	5.8	2.3	1	1	1.1	1.3	0.76	1.2
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	1.1	0.20 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	**4.7**	0.48	**1.7**	**1.5**	0.88	0.78	**2.0**	0.27 U	0.27 U	**1.1**	0.57
Trichlorofluoromethane	2.0	1.3	1.6	3.0	1.7	1.3	1.3	1.2	1.5	1.2	1.2
Trichlorotrifluoroethane	0.72	0.59	0.51	0.45	0.57	0.54	0.61	0.49	0.48	0.47	0.50
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.50 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Vinyl chloride	0.29	0.13 U	0.20	0.22	0.13 U	0.10 U	0.20	0.13 U	0.13 U	0.16	0.13 U

Parameter (ug/m^3)	IA-4-012810 1/28/2010	IA-4-020510 2/5/2010	IA-4-021210 2/12/2010	IA-4-021910 2/19/2010	IA-4-032610 3/26/2010	IA-4-043010 4/30/2010	IA-4-052810 5/28/2010	IA-4-070110 7/1/2010	IA-4-091610 9/16/2010	IA-4-120710 12/7/2010
1,1,1-Trichloroethane	0.27 U	0.76	0.29	0.89	0.27 U	1.1	0.28	0.27 U	0.27 U	0.27 U
1,1,1,2-Tetrachloroethane										
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.34	0.41	0.44	0.25 U
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	
1,3,5-Trimethylbenzene	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
1,3-Butadiene	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane										
2-Butanone	0.30 U	0.69	1.2	0.50	1.6	1.5	2.2	4.8	2.4	0.96
2-Hexanone	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39	0.54	1.0	0.59	0.20 U
4-Ethyltoluene	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-Methyl-2-pentanone	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.43	0.45	0.20 U
Acetone	2.3	4.9	5.9	2.5	6.9	8.7	15	31	19	13 B
Benzene	0.16 U	0.88	0.66	0.54	0.57	0.64	0.48	0.47	0.66	0.49
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.52 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.31 U	0.43	0.31 U	0.42	0.43	0.47	0.52	0.48	0.44	0.46
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.24 U	0.46	0.39	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	**3.3**	0.24 U
Chloromethane	1.3	1.3	1.3	1.2	1.1	0.77	1.2	1.2	1.0	0.95
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.59	0.20 U	1.3	0.20 U	0.44	0.20 U	1.8
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U
Cyclohexane	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 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.4	2.5	2.6	3.0	1.7	2.1	2.5	2.6	1.5	2.0
Ethanol	7.7	34	17	31	3.9	4.9	6.1	8.7	9.8	3.4
Ethyl acetate	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.22 U	0.26	0.22 U	0.22 U	0.22 U	0.25	0.25	0.29	0.44	0.22 U
Hexachlorobutadiene	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Hexane	0.18 U	0.37	1.3	0.49	0.19	1.3	0.55	2.8	0.61	0.38
Isopropyl alcohol	0.96	0.25 U	0.25 U	1.9	0.66	3.4	4.4	1.8	8.3	0.48
m,p-Xylene	0.43 U	0.81	0.43 U	0.43 U	0.49	0.80	0.98	1.1	1.4	0.43 U
Methyl methacrylate										0.20 U
Methylene chloride	1.5	0.70 U	1.9	0.71	0.70 U	0.70 U	0.35 U	7.7	0.68	0.79
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.22	0.32	0.20 U
o-Xylene	0.22 U	0.31	0.22 U	0.22 U	0.22 U	0.30	0.44	0.50	0.57	0.22 U
Propylene (Propene)	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.87 U	1.1	0.35 U	0.86 U
Styrene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22	0.29	0.21 U	0.21 U
Tetrachloroethene	0.34 U	0.34 U	0.34 U	1.4	0.34 U	4.4	0.44	1.1	0.34 U	3.4
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19	0.24	0.15 U	0.15 U
Toluene	0.19 U	0.79	0.63	0.47	0.83	1.4	0.98	1	2	0.43
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.23 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.40	0.27 U	**1.4**	0.27 U	0.44	0.27 U	**1.8**
Trichlorofluoromethane	0.93	1.3	1.4	1.6	1.5	1.3	1.3	1.9	2.4	1.2
Trichlorotrifluoroethane	0.38 U	0.55	0.58	0.55	1.3	0.48	0.51	0.59	0.43	0.54
Vinyl acetate	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.18 U	0.18 U	0.36 U	0.38
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.16

Parameter (ug/m^3)	IA-4-021711 2/17/2011	IA-4-060211 6/2/2011	IA-4 091511 9/15/2011	IA-4-120811 12/8/2011	IA-4-030812 3/8/2012	IA-4-061412 6/14/2012	IA-4-091312 9/13/2012	IA-4-010313 1/3/2013	IA-4-031513 3/15/2013	IA-4-060713 6/7/2013	IA-4-090613 9/6/2013
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.14	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1,1,2-Tetrachloroethane			0.62 U		0.37 U	0.37 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.21 U	0.10 U	0.21 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.16 U	0.082 U	0.16 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.12 U	0.061 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,1-Dichloroethene	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.74 U	0.45 U	0.45 U	0.45 U	0.52 U	0.52 U	0.52 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.49	0.25 U	0.25 U	0.094	0.15 U	0.19	0.38	0.90	0.13	0.47	0.20
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.23 U	0.12 U	0.23 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.063	0.061 U	0.12 U	0.14 U	0.16	0.14 U	0.14 U	0.14 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane											
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.15 U	0.15 U	0.080	0.12	0.27	0.17 U	0.17 U	0.17 U
1,3-Butadiene	0.11 U	0.11 U	0.11 U	0.066 U	0.066 U	0.066 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
1,3-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.18 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane			0.18 U								
2-Butanone	1.0 B	2.9 U	5.9 U	1.0	1.5	0.97	2.3	4.7	2.3	3.9	0.95
2-Hexanone	0.20 U	0.21 J	0.35	0.086	0.32	0.098	0.18	0.19	0.25	0.51	0.14 U
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.15 U	0.15 U	0.068	0.12	0.22	0.17 U	0.17 U	0.17 U
4-Methyl-2-pentanone	0.20 U	0.20 U	0.20 U	0.098	0.15	0.13	0.14 U	3.3	0.28	0.56	0.47
Acetone	12 B	12 B	15	7.4	6.8	9.1	12	17	44	36	18
Benzene	1.4	0.31	0.30	0.38	0.35	0.23	0.64	0.67	0.82	0.55	0.47
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.16 U	0.16 U	0.16 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Bromodichloromethane	0.34 U	0.34 U	0.34 U	0.20 U	0.10 U	0.20 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Bromoform	0.52 U	0.52 U	0.52 U	0.31 U	0.31 U	0.31 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.24	0.14 U	0.14 U	0.13	0.14 U	0.14 U
Carbon disulfide	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.052	1.1 U	1.6	0.52	0.38	0.39
Carbon tetrachloride	**0.57 [a]**	**0.68 [a]**	0.52	0.48	0.47	0.43	0.36	0.54	0.41	**0.65 [a]**	0.45
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.14 U	0.14 U	0.14 U	0.16 U	0.47	0.16 U	0.16 U	0.16 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.079 U	0.079 U	0.079 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U
Chloroform	0.24 U	0.24 U	0.24 U	0.085	0.073 U	0.13	0.19	0.17 U	0.11	0.17 U	0.27
Chloromethane	0.95	1.1	1.5	1.4	1.0	1.3	1.3	1.1	1.3	1.6	1.0
cis-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.19	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.18
cis-1,3-Dichloropropene	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.17 U	0.17 U	0.17 U	0.10 U	0.10 U	0.10 U	0.26	2.1	0.12 U	0.12 U	0.12 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.26 U	0.13 U	0.26 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Dichlorodifluoromethane	3.2	1.8	1.7	2.8	2.0	2.9	2.8	2.8	1.7	3.3	1.8
Ethanol	8.9	5.3	7.0	2.4	2.5	9.4	7.3	7.5	46	79	71
Ethyl acetate	0.26	0.18 U	0.18 U	0.16	0.21	0.38	2.4	0.13 U	0.73	0.94	0.13 U
Ethylbenzene	0.49	0.22 U	0.22 U	0.16	0.17	0.14	0.38	4.1	0.32	0.43	0.19
Hexachlorobutadiene	0.53 U	0.53 U	0.53 U	0.32 U	0.32 U	0.32 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
Hexane	1.7	1.0	7.0 U	0.35	0.55	0.47	5.0	17	0.89	2.8	0.53
Isopropyl alcohol	1.7	1.2 U	4.9 U	2.9 U	2.9 U	2.9 U	1.4	2.6	3.4 U	4.0	1.6
m,p-Xylene	1.4	0.41 J	0.53	0.41	0.27	0.38	1.2	17	1.1	1.6	0.53
Methyl methacrylate	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.13	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Methylene chloride	5.1	3.2	1.7 U	1.5	2.0	0.72	12	1.3	0.97	3.1	0.89
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.11 U	0.11 U	0.11 U	0.19	0.13 U	0.13 U	0.13 U	0.13 U
n-Heptane	0.51	0.20 U	0.20 U	0.071	0.12 U	0.11	0.41	1.6	0.32	0.53	0.16
o-Xylene	0.53	0.22 U	0.22 U	0.15	0.11	0.17	0.41	5.1	0.43	0.57	0.23
Propylene (Propene)	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	1.7	2.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.21 U	0.21 U	0.21 U	0.077	0.092	0.55	0.093	0.52	0.099	0.15 U	0.15 U
Tetrachloroethene	5.0	0.34 U	0.45	1.2	0.31	0.12	1.7	0.18	0.21	0.45	0.30
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.076	0.088 U	0.055	0.10 U	0.28	0.10 U	0.10 U	0.10 U
Toluene	2.7	0.56	0.95	1.6	0.32	0.8	2.9	4.8	1.5	3	1.4
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.12 U	0.059 U	0.12 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
trans-1,3-Dichloropropene	0.23 U	0.23 U	0.23 U	0.14 U	0.068 U	0.14 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.35	0.15	0.052	0.12	0.19 U	0.057	0.19 U	0.19 U
Trichlorofluoromethane	1.8	1.4	1.8	1.3	0.87	1.5	1.7	2.8	1.2	2.2	1.3
Trichlorotrifluoroethane	0.70	0.71	0.52	0.71	0.44	0.56	0.59	0.60	0.66	1.6	0.65
Vinyl acetate	0.18 U	3.5 U	0.18 U	0.11 U	0.21 U	0.21 U	0.25 U	0.25 U	0.25 U	2.5 U	2.5 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U

Table 3.
Summary of Analytical Results - Air Sampling for Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Indoor Air - Large Retail Space																					
Parameter (ug/m^3)	IA-4-121313 12/13/13	IA-4-030714 03/07/14	IA-4-061314 6/13/2014	IA-4-091214 9/12/2014	IA-4-121914 12/19/2014	IA-4-032715 3/27/2015	IA-4-061115 6/11/2015	IA-4-091615 9/16/2015	IA-4-121815 12/18/2015	IA-4-021816 2/18/2016	IA-4080516 8/5/2016	IA-4-021017 2/10/2017	IA-4-090717 9/7/2017	LRAIR01 5/15/2009	LRAIR02 5/15/2009	LRAIR03 5/15/2009	LRAIR04 5/15/2009	LRAIR05 5/15/2009	LRAIR06 5/15/2009	LRAIR07 5/15/2009	LRAIR08 5/15/2009	LRAIR09 5/15/2009	LRAIR10 5/15/2009
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19 U	0.055 U	0.28	0.19 U	0.19 U	0.054 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.45	0.52	0.65	0.57	0.51	0.44	0.69	0.50	0.49	0.53
1,1,1,2-Tetrachloroethane	0.44 U	0.44 U	0.44 U	0.25 U	0.44 U	0.44 U	0.44 U	0.44 U		0.44 U		0.44 U	0.44 U										
1,1,2,2-Tetrachloroethane	0.24 U	0.24 U	0.24 U	0.069 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.19 U	0.19 U	0.19 U	0.11 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.04 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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,1-Dichloroethene	0.14 U	0.14 U	0.14 U	0.04 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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	0.26 U	0.26 U	0.26 U	0.15 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.17 U	0.56	0.26	0.17	0.14 J	0.25	0.2	0.22	0.45	0.24	0.2	0.17 U	0.18	0.25 U	0.25 U	0.25 U	0.29	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dibromoethane (EDB)	0.27 U	0.27 U	0.27 U	0.077 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.12 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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.051 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane									0.25 U		0.25 U			0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	0.17 U	0.17 U	0.17 U	0.098 U	0.17 U	0.066 J	0.066 J	0.066 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 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	0.25 U
1,3-Butadiene	0.078 U	0.47	0.11	0.044 U	0.078 U	0.078 U	0.078 U	0.16	0.1	0.078 U	0.078 U	0.093	0.078 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.12 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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.12 U	0.08 J	0.063 J	0.12 J	0.084 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane									1.3 U		1.3 U												
2-Butanone	1.2	1.1	2.9	4.6	1.1 J	1.9 J	1.9 J	1.8 J	2.5 J	1.1 J	1.6 J	0.98 J	1.9 J	3.3	3.4	2.1	2.6	2.0	1.6	3.1	2.5	2.6	1.4
2-Hexanone	0.14 U	0.15	0.36	0.2	0.14 U	0.25	0.14 U	0.14 U	0.22	0.14 U	0.14 U	0.14 U	0.35	0.73	0.66	0.38	0.51	0.37	0.38	0.61	0.48	0.43	0.29
4-Ethyltoluene	0.17 U	0.18	0.17 U	0.098 U	0.055 J	0.069 J	0.041 J	0.076 J	0.17 U	0.17 U	0.18	0.17 U	0.17 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	0.25 U
4-Methyl-2-pentanone	0.16	0.48	1.3	1	0.34	0.89	0.97	1.6	1.5	0.52	0.14 U	0.13 J	2.1	0.42	0.39	0.32	0.36	0.54	0.27	0.32	0.30	0.61	0.23
Acetone	29	29	37	38	27	42	28	170 E	28	31	38	11	31	12	13	10	11	8.5	7.7	13	11	9.8	6.9
Benzene	0.56	2.2	0.68	0.39	0.47	0.69	0.36	0.79	1.1	0.54	0.25	0.48	0.58	0.54	0.60	0.67	0.55	0.56	0.51	0.53	0.60	0.51	0.57
Benzyl chloride	0.18 U	0.18 U	0.18 U	0.052 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	0.24 U	0.24 U	0.24 U	0.067 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromoform	0.36 U	0.36 U	0.36 U	0.21 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Bromomethane	0.14 U	0.14 U	0.14 U	0.078 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	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	0.15	0.19	0.62	0.46 J	0.27 J	0.31 J	0.35 J	0.44 J	0.31 J	0.14 J	0.3 J	1.1 U	0.34 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.46	0.45	0.40	0.39	0.37	0.35	0.31	0.41	0.54	0.36	0.44	0.43	0.38	**0.7 [a]**	**0.68 [a]**	**0.71 [a]**	**0.68 [a]**	**0.68 [a]**	**0.63 [a]**	**0.68 [a]**	**0.7 [a]**	**0.64 [a]**	**0.66 [a]**
Chlorobenzene	0.16 U	0.16 U	0.16 U	0.046 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	0.093 U	0.093 U	0.093 U	0.053 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.44	0.46	**0.84**	**1.2**	**0.69**	0.39	**1.2**	0.28	0.34	0.24	**0.74**	0.17 U	**0.69**	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.1	1.4	1.2	0.89	0.97	1.2	1.8	1.2	1.3	1.2	1.3	1.2	1.4	1.0	0.98	1.0	0.95	1.0	1.0	0.92	1.1	0.91	1.2
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.04 U	0.87	0.14 U	0.14 U	0.053 J	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.21	0.20 U	0.20 U	0.20 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	0.12 U	0.33	0.12 U	0.069 U	0.12 U	0.12 U	0.12 U	0.12 U	1.3	0.12 U	0.12 U	0.12 U	0.12 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 U	0.17 U
Dibromochloromethane	0.30 U	0.30 U	0.3 U	0.085 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.7	1.3	2.1	2.1	1.7	1.4	2.1	1.7	2.2	1.6	0.61	0.91	1.5	2.5	2.3	2.6	2.4	2.7	2.4	2.4	2.8	2.3	2.7
Ethanol	91	83	240	150	260	190	330	57	69	120	2.6 U	47	290	65	9.0	6.5	5.9	6.0	5.6	5.9	14	44	14
Ethyl acetate	0.13 U	0.88	0.26	0.38	0.46	0.69	0.69	9.9	0.6	0.73	1.5	0.31	1.5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.15 U	0.57	0.27	0.12	0.14 J	0.19	0.16	0.34	0.86	0.17	0.17	0.15 U	0.17	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.27	0.22 U
Hexachlorobutadiene	0.37 U	0.37 U	0.37 U	0.21 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 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	1.1 U	1.1 U
Hexane	4.9 U	1.3	0.75	0.58 J	0.44 J	5.6	0.45 J	1.6 J	2.5 J	0.42 J	0.81 J	0.3 J	0.35 J	1.1	0.21	0.18 U	0.18	0.24	0.18 U	0.19	0.21	0.20	0.18 U
Isopropyl alcohol	8.4	4.4	3.9	4.8	8.2	7.1	3.9	7.1	3.4 U	2.7 J	3.4 U	1.5 J	13	3.3	3.4	3.7	3.5	3.6	3.4	4.4	3.6	2.8	3.2
m,p-Xylene	0.28	1.6	0.86	0.4	0.56	0.62	0.46	1.1	4.4	0.53	0.53	0.24 J	0.64	0.58	0.57	0.58	0.55	0.49	0.50	0.48	0.53	1.0	0.50
Methyl methacrylate	0.14 U	0.14 U	0.14 U	0.082 U	0.14 U	0.14 U		0.14 U		0.14 U		0.14 U	0.14 U										
Methylene chloride	0.69	0.72	0.61	0.64 J	0.29 J	1.5	0.45 J	1.7	0.94 J	0.53 J	0.95 J	0.25 J	0.31 J	5.9	1.5	1.5	1.6	1.9	1.6	1.5	1.6	1.6	1.4
Methyl-t-butyl ether	0.13 U	0.13 U	0.13 U	0.072 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.14 U	0.66	0.39	0.17	0.11 J	0.22	0.17	0.42	0.49	0.56	0.45	0.14 U	0.22	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
o-Xylene	0.15 U	0.66	0.33	0.16	0.17	0.25	0.19	0.4	1.1	0.21	0.2	0.15 U	0.22	0.28	0.28	0.27	0.27	0.25	0.26	0.25	0.27	0.34	0.26
Propylene (Propene)	2.4 U	2.4 U	3.0	1.4 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	2.4 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	0.15 U	0.23	0.46	0.4	0.15 J	0.19	0.38	0.29	0.24	0.15 U	0.3	0.15 U	0.39	0.23	0.21 U	0.21 U	0.22	0.21 U	0.21 U	0.37	0.21 U	0.21 U	0.21 U
Tetrachloroethene	0.24 U	0.31	0.32	0.23	3.2	0.98	0.36	0.58	0.5	0.24 U	0.36	0.36	0.47	0.47	0.47	0.54	0.66	0.64	0.60	0.73	0.53	0.46	0.46
Tetrahydrofuran	0.10 U	0.10 U	0.12	0.094	0.1 U	0.24	0.11	0.11	0.1 U	0.1 U	0.1 U	0.1 U	0.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.20	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	0.75	3.4	1.9	1.4	1.4	1.4	1.2	7.1	3	2.9	1.7	0.96	1.8	0.73	0.7	0.58	0.59	0.51	0.53	0.57	0.53	0.54	0.47
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.04 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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	0.19 U	0.24	0.19 U	0.054 U	**1.2**	0.083 J	0.19 U	0.51	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.28	0.27	0.29	0.34	0.27	0.28	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	1.5	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.6	1.2	1	1.3	1.2	1.3	1.3	1.2	1.1	1.4	1.3	1.1	1.4	1.0	1.4
Trichlorotrifluoroethane	0.58	0.49	0.54	0.55	0.62	0.52 J	0.65 J	0.58 J	0.6 J	0.55 J	0.49 J	0.59 J	0.46 J	0.63	0.60	0.65	0.62	0.64	0.57	0.59	0.68	0.62	0.58
Vinyl acetate	2.5 U	2.5 U	2.5 U	1.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Vinyl chloride	0.090 U	0.090 U	0.09 U	0.026 U	0.072 J	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

Notes:

[a] Carbon tetrachloride and tetrachloroethene are above the target air concentration, but are not compliance violations as indoor air concentrations are consistent with outdoor air concentrations that were sampled on the same day.

NA - not available
U - Not detected, value is the detection limit
B - Compounds detected in method blank as well as field sample
D - Result from diluted analyses
J - Indicates compound was detected at an estimated value.
ug/m^3 - micrograms per cubic meter

5 Bolded and shaded values are above the CT target indoor air concentration for industrial/commercial scenarios

Prepared by / Date: AKN 9/20/17
Checked by / Date: MAM 09/22/17

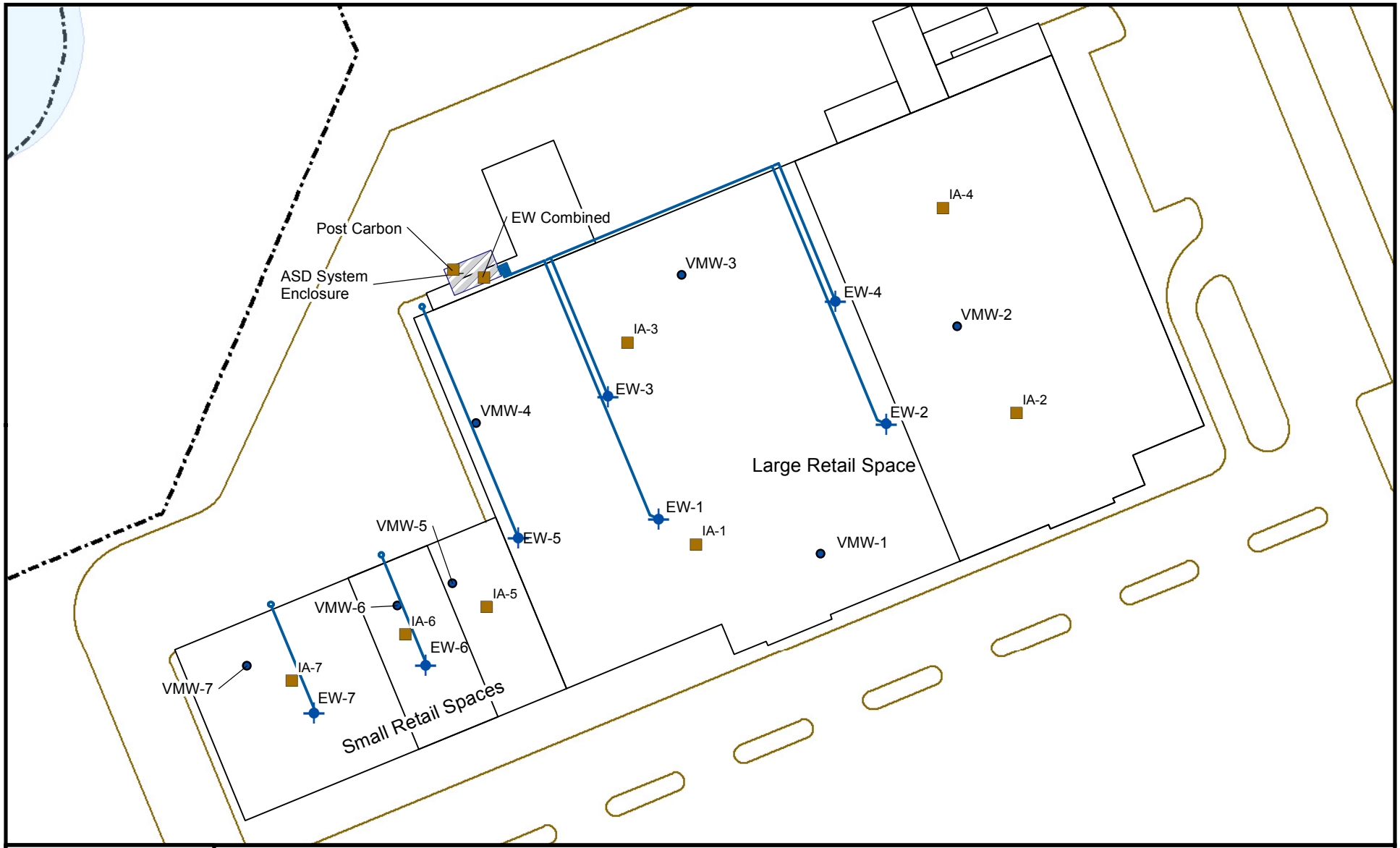
Table 4.
Vacuum Monitoring Results - Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	Pressure Differential (inches of water)			
Date	VMW-1	VMW-2	VMW-3	VMW-4
2/3/2009	-0.20	-0.62	-0.15	-0.12
2/18/2009	-0.509	-0.738	-0.650	-0.253
2/26/2009	-0.511	-0.710	-0.665	-0.273
3/6/2009	-0.507	-0.610	-0.715	-0.251
3/6/2009*	-0.120	-0.195	-0.230	-0.028
3/31/2009	-0.148	-0.221	-0.244	-0.072
4/14/2009	-0.140	-0.210	-0.215	-0.081
5/15/2009	-0.133	-0.193	-0.208	-0.087
9/17/2009	-0.132	-0.172	-0.209	-0.087
9/24/2009	-0.146	-0.189	-0.254	-0.094
10/1/2009	-0.181	-0.232	-0.233	-0.097
10/8/2009	-0.197	-0.212	-0.255	-0.087
12/29/2009**	-0.021	-0.020	-0.160	-0.023
1/28/2010	-0.947	-0.642	-0.709	-0.237
2/5/2010	-0.497	-0.714	-0.510	-0.258
2/12/2010	-0.509	-0.706	-0.537	-0.261
2/19/2010	-0.526	-0.733	-0.667	-0.242
3/26/2010	-0.636	-0.860	-0.671	-0.331
4/30/2010	-0.519	-0.713	-0.378	-0.287
5/28/2010	-0.546	-0.727	+1.371	-0.279
7/1/2010	-0.505	-0.678	+1.568	-0.272
9/16/2010	-0.496	-0.654	+0.980	-0.272
12/7/2010	-0.126	-0.202	-0.155	-0.052
2/17/2011	-0.491	-0.683	-0.737	-0.263
6/2/2011	-0.561	-0.767	-0.393	-0.290
9/15/2011	-0.517	-0.710	+1.071	-0.260
12/8/2011	-0.609	-0.826	+1.502	-0.313
3/8/2012	-0.422	-0.680	+0.329	-0.288
6/14/2012	-0.372	-0.767	+2.389	-0.280
9/13/2012	-0.543	-1.021	-0.665	-0.283
1/3/2013	-0.495	-0.628	-1.141	-0.674
3/15/2013	-0.539	-0.636	-0.754	-0.254
6/7/2013	-0.121	-0.681	-0.787	-0.223
9/6/2013	-0.421	-0.743	-0.766	-0.265
12/13/2013	-0.435	-0.580	-0.031	-0.190
3/7/2014	-0.311	-0.541	-0.741	-0.157
6/13/2014	-0.538	-0.627	-0.010	-0.058
9/12/2014	-0.549	-0.528	-0.295	-0.002
12/19/2014	-0.492	-0.427	-0.002	-0.143
3/27/2015	-0.433	-0.655	-0.011	-0.108
6/11/2015	-0.49***	-0.66***	-0.5***	-0.15***
9/16/2015	-0.535	-0.409	-0.611	-0.123
12/18/2015	-0.436	-0.495	-0.692	-0.181
2/20/2016	-0.49	-0.592	-0.804	-0.0225
8/5/2016	-0.542	-0.503	-0.746	-0.165
2/13/2017	-0.39	-0.602	-0.494	-0.206
9/6/2017	-0.593	-0.649	-0.031	-0.29

* vacuum reduced at extraction wells
** ASD system offline
*** Due to Digtial Manometer reading high range only at the time of measurment, readings are in tenths of inches of water.

Prepared by/Date: MAM 09/6/17
Checked by/Date: DEH 09/25/17

FIGURE 1



All locations are approximate

N

0 30 60 Feet

Legend

- Air Sample Location
- Vacuum Monitoring Well
- Extraction Well
- Extraction Well Piping
- Current Building
- Pavement Outline
- Effluent Location

Prepared/Date: BJR 04/15/13 | Checked/Date: MAM 04/15/13

Figure 1
Vapor Mitigation
Sample Locations

Former Gorham Manufacturing Facility
333 Adelaide Avenue
Providence, Rhode Island

Document: P:\old_Wakefield_Data\projects\TEXTRON\GORHAM\GIS\MapDocuments\StopShopVI.mxd PDF: P:\old_Wakefield_Data\projects\3650080114 - Textron Gorham Vapor Mitigation System\3.0 Field and Site Characterization\3.8 GIS\Figure 1 - Sample Locations.pdf

APPENDIX A

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 19, 2017

Dave Heislein
AMEC E&I, Inc.
271 Mill Road, 3rd Floor
Chelmsford, MA 01824

Project Location: Providence, RI
Client Job Number:
Project Number: 3652150005
Laboratory Work Order Number: 17I0332

Enclosed are results of analyses for samples received by the laboratory on September 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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

AMEC E&I, Inc.
271 Mill Road, 3rd Floor
Chelmsford, MA 01824
ATTN: Dave Heislein

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER: C012206368

PROJECT NUMBER: 3652150005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0332

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

PROJECT LOCATION: Providence, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
IA-1-090717	17I0332-01	Indoor air		-	
				EPA TO-15	
IA-2-090717	17I0332-02	Indoor air		-	
				EPA TO-15	
IA-3-090717	17I0332-03	Indoor air		EPA TO-15	
IA-4-090717	17I0332-04	Indoor air		EPA TO-15	
IA-5-090717	17I0332-05	Indoor air		EPA TO-15	
IA-6-090717	17I0332-06	Indoor air		EPA TO-15	
IA-7-090717	17I0332-07	Indoor air		EPA TO-15	
AA-1-090717	17I0332-08	Ambient Air		EPA TO-15	
EW-5-090717	17I0332-09	Sub Slab		EPA TO-15	
EW-6-090717	17I0332-10	Sub Slab		EPA TO-15	
EW-7-090717	17I0332-11	Sub Slab		EPA TO-15	
EW-Combined-090717	17I0332-12	Sub Slab		EPA TO-15	
Can #1828	17I0332-13	Sub Slab		-	

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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.

EPA TO-15

Qualifications:

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

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene

B186540-BS1

Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

Analyte & Samples(s) Qualified:

Isopropanol

17I0332-01[IA-1-090717], 17I0332-02[IA-2-090717], 17I0332-03[IA-3-090717], 17I0332-04[IA-4-090717], 17I0332-05[IA-5-090717], 17I0332-06[IA-6-090717], 17I0332-07[IA-7-090717], 17I0332-08[AA-1-090717], 17I0332-09[EW-5-090717], 17I0332-10[EW-6-090717], 17I0332-11[EW-7-090717], 17I0332-12[EW-Combined-090717], B186540-BLK1, B186540-BS1, B186540-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test 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
Project Manager

con-test® ANALYTICAL LABORATORY

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-1-090717
Sample ID: 17I0332-01
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:32

Sample Description/Location:
Sub Description/Location:
Canister ID: 1944
Canister Size: 6 liter
Flow Controller ID: 4292
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -3.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	5.9	1.4	0.49		14	3.3	0.702	9/14/17 16:54	CMR
Benzene	0.16	0.035	0.022		0.50	0.11	0.702	9/14/17 16:54	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 16:54	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 16:54	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 16:54	CMR
Bromomethane	0.034	0.035	0.028	J	0.13	0.14	0.702	9/14/17 16:54	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 16:54	CMR
2-Butanone (MEK)	0.70	1.4	0.026	J	2.1	4.1	0.702	9/14/17 16:54	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 16:54	CMR
Carbon Tetrachloride	0.063	0.035	0.025		0.40	0.22	0.702	9/14/17 16:54	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 16:54	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 16:54	CMR
Chloroform	0.032	0.035	0.026	J	0.16	0.17	0.702	9/14/17 16:54	CMR
Chloromethane	0.57	0.070	0.029		1.2	0.14	0.702	9/14/17 16:54	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 16:54	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 16:54	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 16:54	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 16:54	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 16:54	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 16:54	CMR
Dichlorodifluoromethane (Freon 12)	0.30	0.035	0.027		1.5	0.17	0.702	9/14/17 16:54	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 16:54	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 16:54	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 16:54	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 16:54	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 16:54	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 16:54	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 16:54	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 16:54	CMR
Ethanol	8.0	1.4	0.63		15	2.6	0.702	9/14/17 16:54	CMR
Ethyl Acetate	0.11	0.070	0.030		0.38	0.25	0.702	9/14/17 16:54	CMR
Ethylbenzene	0.055	0.035	0.023		0.24	0.15	0.702	9/14/17 16:54	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 16:54	CMR
Heptane	0.039	0.035	0.023		0.16	0.14	0.702	9/14/17 16:54	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 16:54	CMR
Hexane	0.086	1.4	0.062	J	0.30	4.9	0.702	9/14/17 16:54	CMR
2-Hexanone (MBK)	0.079	0.035	0.021		0.32	0.14	0.702	9/14/17 16:54	CMR
Isopropanol	0.99	1.4	0.043	Z-01, J	2.4	3.4	0.702	9/14/17 16:54	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-1-090717
Sample ID: 17I0332-01
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:32

Sample Description/Location:
Sub Description/Location:
Canister ID: 1944
Canister Size: 6 liter
Flow Controller ID: 4292
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -3.8
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 16:54	CMR
Methylene Chloride	0.084	0.35	0.043	J	0.29	1.2	0.702	9/14/17 16:54	CMR
Methyl methacrylate	0.055	0.035	0.026		0.23	0.14	0.702	9/14/17 16:54	CMR
4-Methyl-2-pentanone (MIBK)	0.079	0.035	0.030		0.32	0.14	0.702	9/14/17 16:54	CMR
Propene	0.61	1.4	0.11	J	1.0	2.4	0.702	9/14/17 16:54	CMR
Styrene	ND	0.035	0.023		ND	0.15	0.702	9/14/17 16:54	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 16:54	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 16:54	CMR
Tetrachloroethylene	0.050	0.035	0.021		0.34	0.24	0.702	9/14/17 16:54	CMR
Tetrahydrofuran	0.028	0.070	0.024	J	0.083	0.21	0.702	9/14/17 16:54	CMR
Toluene	0.34	0.035	0.022		1.3	0.13	0.702	9/14/17 16:54	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 16:54	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 16:54	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 16:54	CMR
Trichloroethylene	0.049	0.035	0.022		0.26	0.19	0.702	9/14/17 16:54	CMR
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.029		1.2	0.79	0.702	9/14/17 16:54	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.024	J	0.46	1.1	0.702	9/14/17 16:54	CMR
1,2,4-Trimethylbenzene	0.045	0.035	0.023		0.22	0.17	0.702	9/14/17 16:54	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 16:54	CMR
Vinyl Acetate	ND	0.70	0.021		ND	2.5	0.702	9/14/17 16:54	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 16:54	CMR
m&p-Xylene	0.21	0.070	0.045		0.92	0.30	0.702	9/14/17 16:54	CMR
o-Xylene	0.075	0.035	0.022		0.33	0.15	0.702	9/14/17 16:54	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	9/14/17 16:54
4-Bromofluorobenzene (2)	123	70-130	9/14/17 16:54

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-2-090717
Sample ID: 17I0332-02
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:01

Sample Description/Location:
Sub Description/Location:
Canister ID: 1309
Canister Size: 6 liter
Flow Controller ID: 4304
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	13	1.4	0.49		31	3.3	0.702	9/14/17 17:38	CMR
Benzene	0.17	0.035	0.022		0.55	0.11	0.702	9/14/17 17:38	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 17:38	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 17:38	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 17:38	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 17:38	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 17:38	CMR
2-Butanone (MEK)	0.74	1.4	0.026	J	2.2	4.1	0.702	9/14/17 17:38	CMR
Carbon Disulfide	0.11	0.35	0.024	J	0.34	1.1	0.702	9/14/17 17:38	CMR
Carbon Tetrachloride	0.065	0.035	0.025		0.41	0.22	0.702	9/14/17 17:38	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 17:38	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 17:38	CMR
Chloroform	0.14	0.035	0.026		0.68	0.17	0.702	9/14/17 17:38	CMR
Chloromethane	0.69	0.070	0.029		1.4	0.14	0.702	9/14/17 17:38	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 17:38	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 17:38	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 17:38	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 17:38	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 17:38	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 17:38	CMR
Dichlorodifluoromethane (Freon 12)	0.29	0.035	0.027		1.4	0.17	0.702	9/14/17 17:38	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 17:38	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 17:38	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 17:38	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 17:38	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 17:38	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 17:38	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 17:38	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 17:38	CMR
Ethanol	170	8.0	3.6		320	15	4	9/15/17 22:25	CMR
Ethyl Acetate	0.44	0.070	0.030		1.6	0.25	0.702	9/14/17 17:38	CMR
Ethylbenzene	0.044	0.035	0.023		0.19	0.15	0.702	9/14/17 17:38	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 17:38	CMR
Heptane	0.062	0.035	0.023		0.26	0.14	0.702	9/14/17 17:38	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 17:38	CMR
Hexane	0.11	1.4	0.062	J	0.39	4.9	0.702	9/14/17 17:38	CMR
2-Hexanone (MBK)	0.091	0.035	0.021		0.37	0.14	0.702	9/14/17 17:38	CMR
Isopropanol	5.8	1.4	0.043	Z-01	14	3.4	0.702	9/14/17 17:38	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-2-090717
Sample ID: 17I0332-02
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:01

Sample Description/Location:
Sub Description/Location:
Canister ID: 1309
Canister Size: 6 liter
Flow Controller ID: 4304
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 17:38	CMR
Methylene Chloride	0.088	0.35	0.043	J	0.30	1.2	0.702	9/14/17 17:38	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 17:38	CMR
4-Methyl-2-pentanone (MIBK)	0.48	0.035	0.030		2.0	0.14	0.702	9/14/17 17:38	CMR
Propene	ND	1.4	0.11		ND	2.4	0.702	9/14/17 17:38	CMR
Styrene	0.081	0.035	0.023		0.34	0.15	0.702	9/14/17 17:38	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 17:38	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 17:38	CMR
Tetrachloroethylene	0.069	0.035	0.021		0.47	0.24	0.702	9/14/17 17:38	CMR
Tetrahydrofuran	0.042	0.070	0.024	J	0.12	0.21	0.702	9/14/17 17:38	CMR
Toluene	0.49	0.035	0.022		1.8	0.13	0.702	9/14/17 17:38	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 17:38	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 17:38	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 17:38	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 17:38	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.029		1.2	0.79	0.702	9/14/17 17:38	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.024	J	0.46	1.1	0.702	9/14/17 17:38	CMR
1,2,4-Trimethylbenzene	0.035	0.035	0.023		0.17	0.17	0.702	9/14/17 17:38	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 17:38	CMR
Vinyl Acetate	ND	0.70	0.021		ND	2.5	0.702	9/14/17 17:38	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 17:38	CMR
m&p-Xylene	0.16	0.070	0.045		0.69	0.30	0.702	9/14/17 17:38	CMR
o-Xylene	0.056	0.035	0.022		0.24	0.15	0.702	9/14/17 17:38	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	9/15/17 22:25
4-Bromofluorobenzene (1)	105	70-130	9/14/17 17:38
4-Bromofluorobenzene (2)	122	70-130	9/14/17 17:38

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-3-090717
Sample ID: 17I0332-03
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:33

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 4293
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	5.7	1.4	0.49		14	3.3	0.702	9/14/17 18:23	CMR
Benzene	0.16	0.035	0.022		0.50	0.11	0.702	9/14/17 18:23	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 18:23	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 18:23	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 18:23	CMR
Bromomethane	0.036	0.035	0.028		0.14	0.14	0.702	9/14/17 18:23	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 18:23	CMR
2-Butanone (MEK)	0.83	1.4	0.026	J	2.5	4.1	0.702	9/14/17 18:23	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 18:23	CMR
Carbon Tetrachloride	0.062	0.035	0.025		0.39	0.22	0.702	9/14/17 18:23	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 18:23	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 18:23	CMR
Chloroform	0.033	0.035	0.026	J	0.16	0.17	0.702	9/14/17 18:23	CMR
Chloromethane	0.60	0.070	0.029		1.2	0.14	0.702	9/14/17 18:23	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 18:23	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 18:23	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 18:23	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 18:23	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 18:23	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 18:23	CMR
Dichlorodifluoromethane (Freon 12)	0.28	0.035	0.027		1.4	0.17	0.702	9/14/17 18:23	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 18:23	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 18:23	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 18:23	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 18:23	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 18:23	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 18:23	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 18:23	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 18:23	CMR
Ethanol	8.2	1.4	0.63		16	2.6	0.702	9/14/17 18:23	CMR
Ethyl Acetate	0.061	0.070	0.030	J	0.22	0.25	0.702	9/14/17 18:23	CMR
Ethylbenzene	0.051	0.035	0.023		0.22	0.15	0.702	9/14/17 18:23	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 18:23	CMR
Heptane	0.11	0.035	0.023		0.44	0.14	0.702	9/14/17 18:23	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 18:23	CMR
Hexane	0.18	1.4	0.062	J	0.64	4.9	0.702	9/14/17 18:23	CMR
2-Hexanone (MBK)	0.076	0.035	0.021		0.31	0.14	0.702	9/14/17 18:23	CMR
Isopropanol	1.0	1.4	0.043	Z-01, J	2.5	3.4	0.702	9/14/17 18:23	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-3-090717
Sample ID: 17I0332-03
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:33

Sample Description/Location:
Sub Description/Location:
Canister ID: 1038
Canister Size: 6 liter
Flow Controller ID: 4293
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -4.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 18:23	CMR
Methylene Chloride	0.084	0.35	0.043	J	0.29	1.2	0.702	9/14/17 18:23	CMR
Methyl methacrylate	0.063	0.035	0.026		0.26	0.14	0.702	9/14/17 18:23	CMR
4-Methyl-2-pentanone (MIBK)	0.095	0.035	0.030		0.39	0.14	0.702	9/14/17 18:23	CMR
Propene	0.62	1.4	0.11	J	1.1	2.4	0.702	9/14/17 18:23	CMR
Styrene	ND	0.035	0.023		ND	0.15	0.702	9/14/17 18:23	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 18:23	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 18:23	CMR
Tetrachloroethylene	0.044	0.035	0.021		0.30	0.24	0.702	9/14/17 18:23	CMR
Tetrahydrofuran	0.025	0.070	0.024	J	0.075	0.21	0.702	9/14/17 18:23	CMR
Toluene	0.34	0.035	0.022		1.3	0.13	0.702	9/14/17 18:23	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 18:23	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 18:23	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 18:23	CMR
Trichloroethylene	0.045	0.035	0.022		0.24	0.19	0.702	9/14/17 18:23	CMR
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.029		1.1	0.79	0.702	9/14/17 18:23	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.057	0.14	0.024	J	0.44	1.1	0.702	9/14/17 18:23	CMR
1,2,4-Trimethylbenzene	0.044	0.035	0.023		0.21	0.17	0.702	9/14/17 18:23	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 18:23	CMR
Vinyl Acetate	0.28	0.70	0.021	J	0.98	2.5	0.702	9/14/17 18:23	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 18:23	CMR
m&p-Xylene	0.21	0.070	0.045		0.90	0.30	0.702	9/14/17 18:23	CMR
o-Xylene	0.067	0.035	0.022		0.29	0.15	0.702	9/14/17 18:23	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	104	70-130	9/14/17 18:23
4-Bromofluorobenzene (2)	121	70-130	9/14/17 18:23

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-4-090717
Sample ID: 17I0332-04
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:03

Sample Description/Location:
Sub Description/Location:
Canister ID: 1750
Canister Size: 6 liter
Flow Controller ID: 4305
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	13	1.4	0.49		31	3.3	0.702	9/14/17 19:07	CMR
Benzene	0.18	0.035	0.022		0.58	0.11	0.702	9/14/17 19:07	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 19:07	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 19:07	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 19:07	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 19:07	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 19:07	CMR
2-Butanone (MEK)	0.65	1.4	0.026	J	1.9	4.1	0.702	9/14/17 19:07	CMR
Carbon Disulfide	0.11	0.35	0.024	J	0.34	1.1	0.702	9/14/17 19:07	CMR
Carbon Tetrachloride	0.060	0.035	0.025		0.38	0.22	0.702	9/14/17 19:07	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 19:07	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 19:07	CMR
Chloroform	0.14	0.035	0.026		0.69	0.17	0.702	9/14/17 19:07	CMR
Chloromethane	0.66	0.070	0.029		1.4	0.14	0.702	9/14/17 19:07	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 19:07	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 19:07	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 19:07	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 19:07	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 19:07	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 19:07	CMR
Dichlorodifluoromethane (Freon 12)	0.30	0.035	0.027		1.5	0.17	0.702	9/14/17 19:07	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 19:07	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 19:07	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:07	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 19:07	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:07	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 19:07	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 19:07	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 19:07	CMR
Ethanol	150	8.0	3.6		290	15	4	9/15/17 23:07	CMR
Ethyl Acetate	0.40	0.070	0.030		1.5	0.25	0.702	9/14/17 19:07	CMR
Ethylbenzene	0.039	0.035	0.023		0.17	0.15	0.702	9/14/17 19:07	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 19:07	CMR
Heptane	0.055	0.035	0.023		0.22	0.14	0.702	9/14/17 19:07	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 19:07	CMR
Hexane	0.10	1.4	0.062	J	0.35	4.9	0.702	9/14/17 19:07	CMR
2-Hexanone (MBK)	0.085	0.035	0.021		0.35	0.14	0.702	9/14/17 19:07	CMR
Isopropanol	5.3	1.4	0.043	Z-01	13	3.4	0.702	9/14/17 19:07	CMR

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-4-090717
Sample ID: 17I0332-04
Sample Matrix: Indoor air
Sampled: 9/7/2017 08:03

Sample Description/Location:
Sub Description/Location:
Canister ID: 1750
Canister Size: 6 liter
Flow Controller ID: 4305
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 19:07	CMR
Methylene Chloride	0.089	0.35	0.043	J	0.31	1.2	0.702	9/14/17 19:07	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:07	CMR
4-Methyl-2-pentanone (MIBK)	0.50	0.035	0.030		2.1	0.14	0.702	9/14/17 19:07	CMR
Propene	ND	1.4	0.11		ND	2.4	0.702	9/14/17 19:07	CMR
Styrene	0.091	0.035	0.023		0.39	0.15	0.702	9/14/17 19:07	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 19:07	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 19:07	CMR
Tetrachloroethylene	0.069	0.035	0.021		0.47	0.24	0.702	9/14/17 19:07	CMR
Tetrahydrofuran	0.034	0.070	0.024	J	0.10	0.21	0.702	9/14/17 19:07	CMR
Toluene	0.47	0.035	0.022		1.8	0.13	0.702	9/14/17 19:07	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 19:07	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 19:07	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 19:07	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 19:07	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.029		1.2	0.79	0.702	9/14/17 19:07	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.024	J	0.46	1.1	0.702	9/14/17 19:07	CMR
1,2,4-Trimethylbenzene	0.036	0.035	0.023		0.18	0.17	0.702	9/14/17 19:07	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 19:07	CMR
Vinyl Acetate	ND	0.70	0.021		ND	2.5	0.702	9/14/17 19:07	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 19:07	CMR
m&p-Xylene	0.15	0.070	0.045		0.64	0.30	0.702	9/14/17 19:07	CMR
o-Xylene	0.051	0.035	0.022		0.22	0.15	0.702	9/14/17 19:07	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	9/15/17 23:07
4-Bromofluorobenzene (1)	105	70-130	9/14/17 19:07
4-Bromofluorobenzene (2)	123	70-130	9/14/17 19:07

con-test® ANALYTICAL LABORATORY

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-5-090717
Sample ID: 17I0332-05
Sample Matrix: Indoor air
Sampled: 9/7/2017 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1936
Canister Size: 6 liter
Flow Controller ID: 4213
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	10	1.4	0.49		24	3.3	0.702	9/14/17 19:52	CMR
Benzene	0.17	0.035	0.022		0.53	0.11	0.702	9/14/17 19:52	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 19:52	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 19:52	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 19:52	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 19:52	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 19:52	CMR
2-Butanone (MEK)	0.99	1.4	0.026	J	2.9	4.1	0.702	9/14/17 19:52	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 19:52	CMR
Carbon Tetrachloride	0.065	0.035	0.025		0.41	0.22	0.702	9/14/17 19:52	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 19:52	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 19:52	CMR
Chloroform	0.17	0.035	0.026		0.84	0.17	0.702	9/14/17 19:52	CMR
Chloromethane	1.1	0.070	0.029		2.4	0.14	0.702	9/14/17 19:52	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 19:52	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 19:52	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 19:52	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 19:52	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 19:52	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 19:52	CMR
Dichlorodifluoromethane (Freon 12)	0.27	0.035	0.027		1.3	0.17	0.702	9/14/17 19:52	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 19:52	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 19:52	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:52	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 19:52	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:52	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 19:52	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 19:52	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 19:52	CMR
Ethanol	72	4.0	1.8		130	7.5	2	9/16/17 0:31	CMR
Ethyl Acetate	0.11	0.070	0.030		0.40	0.25	0.702	9/14/17 19:52	CMR
Ethylbenzene	0.098	0.035	0.023		0.43	0.15	0.702	9/14/17 19:52	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 19:52	CMR
Heptane	0.091	0.035	0.023		0.37	0.14	0.702	9/14/17 19:52	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 19:52	CMR
Hexane	0.12	1.4	0.062	J	0.43	4.9	0.702	9/14/17 19:52	CMR
2-Hexanone (MBK)	0.14	0.035	0.021		0.57	0.14	0.702	9/14/17 19:52	CMR
Isopropanol	2.5	1.4	0.043	Z-01	6.2	3.4	0.702	9/14/17 19:52	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-5-090717
Sample ID: 17I0332-05
Sample Matrix: Indoor air
Sampled: 9/7/2017 11:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1936
Canister Size: 6 liter
Flow Controller ID: 4213
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 19:52	CMR
Methylene Chloride	0.10	0.35	0.043	J	0.36	1.2	0.702	9/14/17 19:52	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 19:52	CMR
4-Methyl-2-pentanone (MIBK)	0.089	0.035	0.030		0.37	0.14	0.702	9/14/17 19:52	CMR
Propene	0.94	1.4	0.11	J	1.6	2.4	0.702	9/14/17 19:52	CMR
Styrene	0.073	0.035	0.023		0.31	0.15	0.702	9/14/17 19:52	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 19:52	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 19:52	CMR
Tetrachloroethylene	0.065	0.035	0.021		0.44	0.24	0.702	9/14/17 19:52	CMR
Tetrahydrofuran	0.044	0.070	0.024	J	0.13	0.21	0.702	9/14/17 19:52	CMR
Toluene	0.58	0.035	0.022		2.2	0.13	0.702	9/14/17 19:52	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 19:52	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 19:52	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 19:52	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 19:52	CMR
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.029		1.1	0.79	0.702	9/14/17 19:52	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.058	0.14	0.024	J	0.44	1.1	0.702	9/14/17 19:52	CMR
1,2,4-Trimethylbenzene	0.039	0.035	0.023		0.19	0.17	0.702	9/14/17 19:52	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 19:52	CMR
Vinyl Acetate	0.32	0.70	0.021	J	1.1	2.5	0.702	9/14/17 19:52	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 19:52	CMR
m&p-Xylene	0.26	0.070	0.045		1.1	0.30	0.702	9/14/17 19:52	CMR
o-Xylene	0.091	0.035	0.022		0.40	0.15	0.702	9/14/17 19:52	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	9/16/17 0:31
4-Bromofluorobenzene (1)	105	70-130	9/14/17 19:52
4-Bromofluorobenzene (2)	123	70-130	9/14/17 19:52

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-6-090717
Sample ID: 17I0332-06
Sample Matrix: Indoor air
Sampled: 9/7/2017 12:31

Sample Description/Location:
Sub Description/Location:
Canister ID: 1196
Canister Size: 6 liter
Flow Controller ID: 4314
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	16	1.4	0.49		38	3.3	0.702	9/14/17 20:40	CMR
Benzene	0.16	0.035	0.022		0.50	0.11	0.702	9/14/17 20:40	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 20:40	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 20:40	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 20:40	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 20:40	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 20:40	CMR
2-Butanone (MEK)	1.3	1.4	0.026	J	3.7	4.1	0.702	9/14/17 20:40	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 20:40	CMR
Carbon Tetrachloride	0.065	0.035	0.025		0.41	0.22	0.702	9/14/17 20:40	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 20:40	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 20:40	CMR
Chloroform	0.041	0.035	0.026		0.20	0.17	0.702	9/14/17 20:40	CMR
Chloromethane	0.65	0.070	0.029		1.3	0.14	0.702	9/14/17 20:40	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 20:40	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 20:40	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 20:40	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 20:40	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 20:40	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 20:40	CMR
Dichlorodifluoromethane (Freon 12)	0.28	0.035	0.027		1.4	0.17	0.702	9/14/17 20:40	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 20:40	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 20:40	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 20:40	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 20:40	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 20:40	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 20:40	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 20:40	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 20:40	CMR
Ethanol	11	1.4	0.63		21	2.6	0.702	9/14/17 20:40	CMR
Ethyl Acetate	0.52	0.070	0.030		1.9	0.25	0.702	9/14/17 20:40	CMR
Ethylbenzene	0.061	0.035	0.023		0.27	0.15	0.702	9/14/17 20:40	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 20:40	CMR
Heptane	0.057	0.035	0.023		0.23	0.14	0.702	9/14/17 20:40	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 20:40	CMR
Hexane	0.21	1.4	0.062	J	0.75	4.9	0.702	9/14/17 20:40	CMR
2-Hexanone (MBK)	0.054	0.035	0.021		0.22	0.14	0.702	9/14/17 20:40	CMR
Isopropanol	1.4	1.4	0.043	Z-01, J	3.4	3.4	0.702	9/14/17 20:40	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-6-090717
Sample ID: 17I0332-06
Sample Matrix: Indoor air
Sampled: 9/7/2017 12:31

Sample Description/Location:
Sub Description/Location:
Canister ID: 1196
Canister Size: 6 liter
Flow Controller ID: 4314
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 20:40	CMR
Methylene Chloride	0.15	0.35	0.043	J	0.52	1.2	0.702	9/14/17 20:40	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 20:40	CMR
4-Methyl-2-pentanone (MIBK)	0.090	0.035	0.030		0.37	0.14	0.702	9/14/17 20:40	CMR
Propene	ND	1.4	0.11		ND	2.4	0.702	9/14/17 20:40	CMR
Styrene	0.038	0.035	0.023		0.16	0.15	0.702	9/14/17 20:40	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 20:40	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 20:40	CMR
Tetrachloroethylene	0.031	0.035	0.021	J	0.21	0.24	0.702	9/14/17 20:40	CMR
Tetrahydrofuran	0.056	0.070	0.024	J	0.17	0.21	0.702	9/14/17 20:40	CMR
Toluene	0.46	0.035	0.022		1.7	0.13	0.702	9/14/17 20:40	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 20:40	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 20:40	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 20:40	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 20:40	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.029		1.2	0.79	0.702	9/14/17 20:40	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.058	0.14	0.024	J	0.45	1.1	0.702	9/14/17 20:40	CMR
1,2,4-Trimethylbenzene	0.031	0.035	0.023	J	0.15	0.17	0.702	9/14/17 20:40	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 20:40	CMR
Vinyl Acetate	ND	0.70	0.021		ND	2.5	0.702	9/14/17 20:40	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 20:40	CMR
m&p-Xylene	0.19	0.070	0.045		0.81	0.30	0.702	9/14/17 20:40	CMR
o-Xylene	0.064	0.035	0.022		0.28	0.15	0.702	9/14/17 20:40	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	9/14/17 20:40
4-Bromofluorobenzene (2)	121	70-130	9/14/17 20:40

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-7-090717
Sample ID: 17I0332-07
Sample Matrix: Indoor air
Sampled: 9/7/2017 11:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1959
Canister Size: 6 liter
Flow Controller ID: 4308
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	16	1.4	0.49		37	3.3	0.702	9/14/17 21:25	CMR
Benzene	0.15	0.035	0.022		0.47	0.11	0.702	9/14/17 21:25	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 21:25	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 21:25	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 21:25	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 21:25	CMR
1,3-Butadiene	ND	0.035	0.027		ND	0.078	0.702	9/14/17 21:25	CMR
2-Butanone (MEK)	0.81	1.4	0.026	J	2.4	4.1	0.702	9/14/17 21:25	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 21:25	CMR
Carbon Tetrachloride	0.063	0.035	0.025		0.40	0.22	0.702	9/14/17 21:25	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 21:25	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 21:25	CMR
Chloroform	0.063	0.035	0.026		0.31	0.17	0.702	9/14/17 21:25	CMR
Chloromethane	0.72	0.070	0.029		1.5	0.14	0.702	9/14/17 21:25	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 21:25	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 21:25	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 21:25	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 21:25	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 21:25	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 21:25	CMR
Dichlorodifluoromethane (Freon 12)	0.29	0.035	0.027		1.4	0.17	0.702	9/14/17 21:25	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 21:25	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 21:25	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 21:25	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 21:25	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 21:25	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 21:25	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 21:25	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 21:25	CMR
Ethanol	51	4.0	1.8		95	7.5	2	9/16/17 1:15	CMR
Ethyl Acetate	0.49	0.070	0.030		1.7	0.25	0.702	9/14/17 21:25	CMR
Ethylbenzene	0.067	0.035	0.023		0.29	0.15	0.702	9/14/17 21:25	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 21:25	CMR
Heptane	0.072	0.035	0.023		0.29	0.14	0.702	9/14/17 21:25	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 21:25	CMR
Hexane	0.18	1.4	0.062	J	0.65	4.9	0.702	9/14/17 21:25	CMR
2-Hexanone (MBK)	0.10	0.035	0.021		0.43	0.14	0.702	9/14/17 21:25	CMR
Isopropanol	ND	1.4	0.043	Z-01	ND	3.4	0.702	9/14/17 21:25	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: IA-7-090717
Sample ID: 17I0332-07
Sample Matrix: Indoor air
Sampled: 9/7/2017 11:50

Sample Description/Location:
Sub Description/Location:
Canister ID: 1959
Canister Size: 6 liter
Flow Controller ID: 4308
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 21:25	CMR
Methylene Chloride	0.17	0.35	0.043	J	0.59	1.2	0.702	9/14/17 21:25	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 21:25	CMR
4-Methyl-2-pentanone (MIBK)	0.068	0.035	0.030		0.28	0.14	0.702	9/14/17 21:25	CMR
Propene	ND	1.4	0.11		ND	2.4	0.702	9/14/17 21:25	CMR
Styrene	0.14	0.035	0.023		0.59	0.15	0.702	9/14/17 21:25	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 21:25	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 21:25	CMR
Tetrachloroethylene	0.051	0.035	0.021		0.34	0.24	0.702	9/14/17 21:25	CMR
Tetrahydrofuran	ND	0.070	0.024		ND	0.21	0.702	9/14/17 21:25	CMR
Toluene	0.48	0.035	0.022		1.8	0.13	0.702	9/14/17 21:25	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 21:25	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 21:25	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 21:25	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 21:25	CMR
Trichlorofluoromethane (Freon 11)	0.21	0.14	0.029		1.2	0.79	0.702	9/14/17 21:25	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.024	J	0.46	1.1	0.702	9/14/17 21:25	CMR
1,2,4-Trimethylbenzene	0.042	0.035	0.023		0.21	0.17	0.702	9/14/17 21:25	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 21:25	CMR
Vinyl Acetate	0.46	0.70	0.021	J	1.6	2.5	0.702	9/14/17 21:25	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 21:25	CMR
m&p-Xylene	0.19	0.070	0.045		0.82	0.30	0.702	9/14/17 21:25	CMR
o-Xylene	0.067	0.035	0.022		0.29	0.15	0.702	9/14/17 21:25	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	9/16/17 1:15
4-Bromofluorobenzene (1)	105	70-130	9/14/17 21:25
4-Bromofluorobenzene (2)	121	70-130	9/14/17 21:25

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: AA-1-090717
Sample ID: 17I0332-08
Sample Matrix: Ambient Air
Sampled: 9/7/2017 10:06

Sample Description/Location:
Sub Description/Location:
Canister ID: 1012
Canister Size: 6 liter
Flow Controller ID: 4171
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -3.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	6.7	1.4	0.49		16	3.3	0.702	9/14/17 22:10	CMR
Benzene	0.67	0.035	0.022		2.2	0.11	0.702	9/14/17 22:10	CMR
Benzyl chloride	ND	0.035	0.016		ND	0.18	0.702	9/14/17 22:10	CMR
Bromodichloromethane	ND	0.035	0.023		ND	0.24	0.702	9/14/17 22:10	CMR
Bromoform	ND	0.035	0.021		ND	0.36	0.702	9/14/17 22:10	CMR
Bromomethane	ND	0.035	0.028		ND	0.14	0.702	9/14/17 22:10	CMR
1,3-Butadiene	0.41	0.035	0.027		0.90	0.078	0.702	9/14/17 22:10	CMR
2-Butanone (MEK)	0.81	1.4	0.026	J	2.4	4.1	0.702	9/14/17 22:10	CMR
Carbon Disulfide	ND	0.35	0.024		ND	1.1	0.702	9/14/17 22:10	CMR
Carbon Tetrachloride	0.064	0.035	0.025		0.40	0.22	0.702	9/14/17 22:10	CMR
Chlorobenzene	ND	0.035	0.022		ND	0.16	0.702	9/14/17 22:10	CMR
Chloroethane	ND	0.070	0.029		ND	0.19	0.702	9/14/17 22:10	CMR
Chloroform	ND	0.035	0.026		ND	0.17	0.702	9/14/17 22:10	CMR
Chloromethane	0.59	0.070	0.029		1.2	0.14	0.702	9/14/17 22:10	CMR
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	9/14/17 22:10	CMR
Dibromochloromethane	ND	0.035	0.023		ND	0.30	0.702	9/14/17 22:10	CMR
1,2-Dibromoethane (EDB)	ND	0.035	0.023		ND	0.27	0.702	9/14/17 22:10	CMR
1,2-Dichlorobenzene	ND	0.035	0.023		ND	0.21	0.702	9/14/17 22:10	CMR
1,3-Dichlorobenzene	ND	0.035	0.021		ND	0.21	0.702	9/14/17 22:10	CMR
1,4-Dichlorobenzene	ND	0.035	0.024		ND	0.21	0.702	9/14/17 22:10	CMR
Dichlorodifluoromethane (Freon 12)	0.30	0.035	0.027		1.5	0.17	0.702	9/14/17 22:10	CMR
1,1-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 22:10	CMR
1,2-Dichloroethane	ND	0.035	0.025		ND	0.14	0.702	9/14/17 22:10	CMR
1,1-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 22:10	CMR
cis-1,2-Dichloroethylene	ND	0.035	0.024		ND	0.14	0.702	9/14/17 22:10	CMR
trans-1,2-Dichloroethylene	ND	0.035	0.026		ND	0.14	0.702	9/14/17 22:10	CMR
1,2-Dichloropropane	ND	0.035	0.024		ND	0.16	0.702	9/14/17 22:10	CMR
cis-1,3-Dichloropropene	ND	0.035	0.030		ND	0.16	0.702	9/14/17 22:10	CMR
trans-1,3-Dichloropropene	ND	0.035	0.021		ND	0.16	0.702	9/14/17 22:10	CMR
Ethanol	1.2	1.4	0.63	J	2.2	2.6	0.702	9/14/17 22:10	CMR
Ethyl Acetate	ND	0.070	0.030		ND	0.25	0.702	9/14/17 22:10	CMR
Ethylbenzene	0.15	0.035	0.023		0.67	0.15	0.702	9/14/17 22:10	CMR
4-Ethyltoluene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 22:10	CMR
Heptane	0.12	0.035	0.023		0.47	0.14	0.702	9/14/17 22:10	CMR
Hexachlorobutadiene	ND	0.035	0.027		ND	0.37	0.702	9/14/17 22:10	CMR
Hexane	0.11	1.4	0.062	J	0.40	4.9	0.702	9/14/17 22:10	CMR
2-Hexanone (MBK)	ND	0.035	0.021		ND	0.14	0.702	9/14/17 22:10	CMR
Isopropanol	0.21	1.4	0.043	Z-01, J	0.52	3.4	0.702	9/14/17 22:10	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: AA-1-090717
Sample ID: 17I0332-08
Sample Matrix: Ambient Air
Sampled: 9/7/2017 10:06

Sample Description/Location:
Sub Description/Location:
Canister ID: 1012
Canister Size: 6 liter
Flow Controller ID: 4171
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -2
Receipt Vacuum(in Hg): -3.1
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.035	0.024		ND	0.13	0.702	9/14/17 22:10	CMR
Methylene Chloride	0.074	0.35	0.043	J	0.26	1.2	0.702	9/14/17 22:10	CMR
Methyl methacrylate	ND	0.035	0.026		ND	0.14	0.702	9/14/17 22:10	CMR
4-Methyl-2-pentanone (MIBK)	0.073	0.035	0.030		0.30	0.14	0.702	9/14/17 22:10	CMR
Propene	ND	1.4	0.11		ND	2.4	0.702	9/14/17 22:10	CMR
Styrene	0.11	0.035	0.023		0.46	0.15	0.702	9/14/17 22:10	CMR
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	9/14/17 22:10	CMR
1,1,2,2-Tetrachloroethane	ND	0.035	0.022		ND	0.24	0.702	9/14/17 22:10	CMR
Tetrachloroethylene	ND	0.035	0.021		ND	0.24	0.702	9/14/17 22:10	CMR
Tetrahydrofuran	ND	0.070	0.024		ND	0.21	0.702	9/14/17 22:10	CMR
Toluene	0.58	0.035	0.022		2.2	0.13	0.702	9/14/17 22:10	CMR
1,2,4-Trichlorobenzene	ND	0.035	0.026		ND	0.26	0.702	9/14/17 22:10	CMR
1,1,1-Trichloroethane	ND	0.035	0.024		ND	0.19	0.702	9/14/17 22:10	CMR
1,1,2-Trichloroethane	ND	0.035	0.022		ND	0.19	0.702	9/14/17 22:10	CMR
Trichloroethylene	ND	0.035	0.022		ND	0.19	0.702	9/14/17 22:10	CMR
Trichlorofluoromethane (Freon 11)	0.20	0.14	0.029		1.1	0.79	0.702	9/14/17 22:10	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.060	0.14	0.024	J	0.46	1.1	0.702	9/14/17 22:10	CMR
1,2,4-Trimethylbenzene	ND	0.035	0.023		ND	0.17	0.702	9/14/17 22:10	CMR
1,3,5-Trimethylbenzene	ND	0.035	0.024		ND	0.17	0.702	9/14/17 22:10	CMR
Vinyl Acetate	ND	0.70	0.021		ND	2.5	0.702	9/14/17 22:10	CMR
Vinyl Chloride	ND	0.035	0.026		ND	0.090	0.702	9/14/17 22:10	CMR
m&p-Xylene	0.55	0.070	0.045		2.4	0.30	0.702	9/14/17 22:10	CMR
o-Xylene	0.15	0.035	0.022		0.67	0.15	0.702	9/14/17 22:10	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	105	70-130	9/14/17 22:10
4-Bromofluorobenzene (2)	122	70-130	9/14/17 22:10

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-5-090717
Sample ID: 17I0332-09
Sample Matrix: Sub Slab
Sampled: 9/7/2017 09:21

Sample Description/Location:
Sub Description/Location:
Canister ID: 1926
Canister Size: 6 liter
Flow Controller ID: 4180
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	300	80	28		700	190	40	9/14/17 23:24	CMR
Benzene	0.86	0.20	0.13		2.7	0.64	4	9/14/17 22:47	CMR
Benzyl chloride	ND	0.20	0.090		ND	1.0	4	9/14/17 22:47	CMR
Bromodichloromethane	ND	0.20	0.13		ND	1.3	4	9/14/17 22:47	CMR
Bromoform	ND	0.20	0.12		ND	2.1	4	9/14/17 22:47	CMR
Bromomethane	ND	0.20	0.16		ND	0.78	4	9/14/17 22:47	CMR
1,3-Butadiene	ND	0.20	0.15		ND	0.44	4	9/14/17 22:47	CMR
2-Butanone (MEK)	1500	80	1.5		4500	240	40	9/14/17 23:24	CMR
Carbon Disulfide	38	2.0	0.14		120	6.2	4	9/14/17 22:47	CMR
Carbon Tetrachloride	ND	0.20	0.14		ND	1.3	4	9/14/17 22:47	CMR
Chlorobenzene	ND	0.20	0.13		ND	0.92	4	9/14/17 22:47	CMR
Chloroethane	0.48	0.40	0.16		1.3	1.1	4	9/14/17 22:47	CMR
Chloroform	0.21	0.20	0.15		1.0	0.98	4	9/14/17 22:47	CMR
Chloromethane	37	0.40	0.17		76	0.83	4	9/14/17 22:47	CMR
Cyclohexane	ND	0.20	0.12		ND	0.69	4	9/14/17 22:47	CMR
Dibromochloromethane	ND	0.20	0.13		ND	1.7	4	9/14/17 22:47	CMR
1,2-Dibromoethane (EDB)	ND	0.20	0.13		ND	1.5	4	9/14/17 22:47	CMR
1,2-Dichlorobenzene	ND	0.20	0.13		ND	1.2	4	9/14/17 22:47	CMR
1,3-Dichlorobenzene	ND	0.20	0.12		ND	1.2	4	9/14/17 22:47	CMR
1,4-Dichlorobenzene	ND	0.20	0.14		ND	1.2	4	9/14/17 22:47	CMR
Dichlorodifluoromethane (Freon 12)	0.45	0.20	0.15		2.2	0.99	4	9/14/17 22:47	CMR
1,1-Dichloroethane	1.5	0.20	0.14		6.2	0.81	4	9/14/17 22:47	CMR
1,2-Dichloroethane	ND	0.20	0.14		ND	0.81	4	9/14/17 22:47	CMR
1,1-Dichloroethylene	0.33	0.20	0.15		1.3	0.79	4	9/14/17 22:47	CMR
cis-1,2-Dichloroethylene	0.70	0.20	0.14		2.8	0.79	4	9/14/17 22:47	CMR
trans-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	4	9/14/17 22:47	CMR
1,2-Dichloropropane	ND	0.20	0.14		ND	0.92	4	9/14/17 22:47	CMR
cis-1,3-Dichloropropene	ND	0.20	0.17		ND	0.91	4	9/14/17 22:47	CMR
trans-1,3-Dichloropropene	ND	0.20	0.12		ND	0.91	4	9/14/17 22:47	CMR
Ethanol	6.7	8.0	3.6	J	13	15	4	9/14/17 22:47	CMR
Ethyl Acetate	1.4	0.40	0.17		5.2	1.4	4	9/14/17 22:47	CMR
Ethylbenzene	ND	0.20	0.13		ND	0.87	4	9/14/17 22:47	CMR
4-Ethyltoluene	ND	0.20	0.13		ND	0.98	4	9/14/17 22:47	CMR
Heptane	ND	0.20	0.13		ND	0.82	4	9/14/17 22:47	CMR
Hexachlorobutadiene	ND	0.20	0.15		ND	2.1	4	9/14/17 22:47	CMR
Hexane	ND	8.0	0.35		ND	28	4	9/14/17 22:47	CMR
2-Hexanone (MBK)	ND	0.20	0.12		ND	0.82	4	9/14/17 22:47	CMR
Isopropanol	ND	8.0	0.25	Z-01	ND	20	4	9/14/17 22:47	CMR

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-5-090717
Sample ID: 17I0332-09
Sample Matrix: Sub Slab
Sampled: 9/7/2017 09:21

Sample Description/Location:
Sub Description/Location:
Canister ID: 1926
Canister Size: 6 liter
Flow Controller ID: 4180
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -5.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.14		ND	0.72	4	9/14/17 22:47	CMR
Methylene Chloride	ND	2.0	0.24		ND	6.9	4	9/14/17 22:47	CMR
Methyl methacrylate	ND	0.20	0.15		ND	0.82	4	9/14/17 22:47	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.17		ND	0.82	4	9/14/17 22:47	CMR
Propene	ND	8.0	0.61		ND	14	4	9/14/17 22:47	CMR
Styrene	ND	0.20	0.13		ND	0.85	4	9/14/17 22:47	CMR
1,1,1,2-Tetrachloroethane	ND	0.36	0.13		ND	2.5	4	9/14/17 22:47	CMR
1,1,2,2-Tetrachloroethane	ND	0.20	0.12		ND	1.4	4	9/14/17 22:47	CMR
Tetrachloroethylene	ND	0.20	0.12		ND	1.4	4	9/14/17 22:47	CMR
Tetrahydrofuran	1800	4.0	1.4		5300	12	40	9/14/17 23:24	CMR
Toluene	0.22	0.20	0.13		0.83	0.75	4	9/14/17 22:47	CMR
1,2,4-Trichlorobenzene	ND	0.20	0.15		ND	1.5	4	9/14/17 22:47	CMR
1,1,1-Trichloroethane	7.6	0.20	0.14		42	1.1	4	9/14/17 22:47	CMR
1,1,2-Trichloroethane	ND	0.20	0.13		ND	1.1	4	9/14/17 22:47	CMR
Trichloroethylene	28	0.20	0.13		150	1.1	4	9/14/17 22:47	CMR
Trichlorofluoromethane (Freon 11)	0.50	0.80	0.17	J	2.8	4.5	4	9/14/17 22:47	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.14		ND	6.1	4	9/14/17 22:47	CMR
1,2,4-Trimethylbenzene	ND	0.20	0.13		ND	0.98	4	9/14/17 22:47	CMR
1,3,5-Trimethylbenzene	ND	0.20	0.14		ND	0.98	4	9/14/17 22:47	CMR
Vinyl Acetate	ND	4.0	0.12		ND	14	4	9/14/17 22:47	CMR
Vinyl Chloride	0.48	0.20	0.15		1.2	0.51	4	9/14/17 22:47	CMR
m&p-Xylene	ND	0.40	0.26		ND	1.7	4	9/14/17 22:47	CMR
o-Xylene	ND	0.20	0.12		ND	0.87	4	9/14/17 22:47	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	109	70-130	9/14/17 23:24
4-Bromofluorobenzene (1)	106	70-130	9/14/17 22:47
4-Bromofluorobenzene (2)	126	70-130	9/14/17 22:47

con-test® ANALYTICAL LABORATORY

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-6-090717
Sample ID: 17I0332-10
Sample Matrix: Sub Slab
Sampled: 9/7/2017 12:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1488
Canister Size: 6 liter
Flow Controller ID: 4315
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	11	8.0	2.8		26	19	4	9/15/17 0:01	CMR
Benzene	0.14	0.20	0.13	J	0.46	0.64	4	9/15/17 0:01	CMR
Benzyl chloride	ND	0.20	0.090		ND	1.0	4	9/15/17 0:01	CMR
Bromodichloromethane	ND	0.20	0.13		ND	1.3	4	9/15/17 0:01	CMR
Bromoform	ND	0.20	0.12		ND	2.1	4	9/15/17 0:01	CMR
Bromomethane	ND	0.20	0.16		ND	0.78	4	9/15/17 0:01	CMR
1,3-Butadiene	ND	0.20	0.15		ND	0.44	4	9/15/17 0:01	CMR
2-Butanone (MEK)	40	8.0	0.15		120	24	4	9/15/17 0:01	CMR
Carbon Disulfide	0.73	2.0	0.14	J	2.3	6.2	4	9/15/17 0:01	CMR
Carbon Tetrachloride	ND	0.20	0.14		ND	1.3	4	9/15/17 0:01	CMR
Chlorobenzene	ND	0.20	0.13		ND	0.92	4	9/15/17 0:01	CMR
Chloroethane	ND	0.40	0.16		ND	1.1	4	9/15/17 0:01	CMR
Chloroform	ND	0.20	0.15		ND	0.98	4	9/15/17 0:01	CMR
Chloromethane	1.7	0.40	0.17		3.5	0.83	4	9/15/17 0:01	CMR
Cyclohexane	ND	0.20	0.12		ND	0.69	4	9/15/17 0:01	CMR
Dibromochloromethane	ND	0.20	0.13		ND	1.7	4	9/15/17 0:01	CMR
1,2-Dibromoethane (EDB)	ND	0.20	0.13		ND	1.5	4	9/15/17 0:01	CMR
1,2-Dichlorobenzene	ND	0.20	0.13		ND	1.2	4	9/15/17 0:01	CMR
1,3-Dichlorobenzene	ND	0.20	0.12		ND	1.2	4	9/15/17 0:01	CMR
1,4-Dichlorobenzene	ND	0.20	0.14		ND	1.2	4	9/15/17 0:01	CMR
Dichlorodifluoromethane (Freon 12)	0.45	0.20	0.15		2.2	0.99	4	9/15/17 0:01	CMR
1,1-Dichloroethane	0.14	0.20	0.14	J	0.58	0.81	4	9/15/17 0:01	CMR
1,2-Dichloroethane	ND	0.20	0.14		ND	0.81	4	9/15/17 0:01	CMR
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	4	9/15/17 0:01	CMR
cis-1,2-Dichloroethylene	ND	0.20	0.14		ND	0.79	4	9/15/17 0:01	CMR
trans-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	4	9/15/17 0:01	CMR
1,2-Dichloropropane	ND	0.20	0.14		ND	0.92	4	9/15/17 0:01	CMR
cis-1,3-Dichloropropene	ND	0.20	0.17		ND	0.91	4	9/15/17 0:01	CMR
trans-1,3-Dichloropropene	ND	0.20	0.12		ND	0.91	4	9/15/17 0:01	CMR
Ethanol	8.2	8.0	3.6		15	15	4	9/15/17 0:01	CMR
Ethyl Acetate	1.6	0.40	0.17		5.9	1.4	4	9/15/17 0:01	CMR
Ethylbenzene	ND	0.20	0.13		ND	0.87	4	9/15/17 0:01	CMR
4-Ethyltoluene	ND	0.20	0.13		ND	0.98	4	9/15/17 0:01	CMR
Heptane	ND	0.20	0.13		ND	0.82	4	9/15/17 0:01	CMR
Hexachlorobutadiene	ND	0.20	0.15		ND	2.1	4	9/15/17 0:01	CMR
Hexane	ND	8.0	0.35		ND	28	4	9/15/17 0:01	CMR
2-Hexanone (MBK)	ND	0.20	0.12		ND	0.82	4	9/15/17 0:01	CMR
Isopropanol	1.4	8.0	0.25	Z-01, J	3.3	20	4	9/15/17 0:01	CMR

con-test® ANALYTICAL LABORATORY

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-6-090717
Sample ID: 17I0332-10
Sample Matrix: Sub Slab
Sampled: 9/7/2017 12:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1488
Canister Size: 6 liter
Flow Controller ID: 4315
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -3.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.14		ND	0.72	4	9/15/17 0:01	CMR
Methylene Chloride	0.34	2.0	0.24	J	1.2	6.9	4	9/15/17 0:01	CMR
Methyl methacrylate	ND	0.20	0.15		ND	0.82	4	9/15/17 0:01	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.17		ND	0.82	4	9/15/17 0:01	CMR
Propene	ND	8.0	0.61		ND	14	4	9/15/17 0:01	CMR
Styrene	ND	0.20	0.13		ND	0.85	4	9/15/17 0:01	CMR
1,1,1,2-Tetrachloroethane	ND	0.36	0.13		ND	2.5	4	9/15/17 0:01	CMR
1,1,2,2-Tetrachloroethane	ND	0.20	0.12		ND	1.4	4	9/15/17 0:01	CMR
Tetrachloroethylene	ND	0.20	0.12		ND	1.4	4	9/15/17 0:01	CMR
Tetrahydrofuran	22	0.40	0.14		65	1.2	4	9/15/17 0:01	CMR
Toluene	0.46	0.20	0.13		1.7	0.75	4	9/15/17 0:01	CMR
1,2,4-Trichlorobenzene	ND	0.20	0.15		ND	1.5	4	9/15/17 0:01	CMR
1,1,1-Trichloroethane	0.71	0.20	0.14		3.9	1.1	4	9/15/17 0:01	CMR
1,1,2-Trichloroethane	ND	0.20	0.13		ND	1.1	4	9/15/17 0:01	CMR
Trichloroethylene	1.2	0.20	0.13		6.4	1.1	4	9/15/17 0:01	CMR
Trichlorofluoromethane (Freon 11)	0.82	0.80	0.17		4.6	4.5	4	9/15/17 0:01	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.14		ND	6.1	4	9/15/17 0:01	CMR
1,2,4-Trimethylbenzene	ND	0.20	0.13		ND	0.98	4	9/15/17 0:01	CMR
1,3,5-Trimethylbenzene	ND	0.20	0.14		ND	0.98	4	9/15/17 0:01	CMR
Vinyl Acetate	ND	4.0	0.12		ND	14	4	9/15/17 0:01	CMR
Vinyl Chloride	ND	0.20	0.15		ND	0.51	4	9/15/17 0:01	CMR
m&p-Xylene	ND	0.40	0.26		ND	1.7	4	9/15/17 0:01	CMR
o-Xylene	ND	0.20	0.12		ND	0.87	4	9/15/17 0:01	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	9/15/17 0:01
4-Bromofluorobenzene (2)	128	70-130	9/15/17 0:01

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-7-090717
Sample ID: 17I0332-11
Sample Matrix: Sub Slab
Sampled: 9/7/2017 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1933
Canister Size: 6 liter
Flow Controller ID: 4309
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -7.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	22	8.0	2.8		51	19	4	9/15/17 1:17	CMR
Benzene	0.13	0.20	0.13	J	0.42	0.64	4	9/15/17 1:17	CMR
Benzyl chloride	ND	0.20	0.090		ND	1.0	4	9/15/17 1:17	CMR
Bromodichloromethane	ND	0.20	0.13		ND	1.3	4	9/15/17 1:17	CMR
Bromoform	ND	0.20	0.12		ND	2.1	4	9/15/17 1:17	CMR
Bromomethane	ND	0.20	0.16		ND	0.78	4	9/15/17 1:17	CMR
1,3-Butadiene	ND	0.20	0.15		ND	0.44	4	9/15/17 1:17	CMR
2-Butanone (MEK)	60	8.0	0.15		180	24	4	9/15/17 1:17	CMR
Carbon Disulfide	0.61	2.0	0.14	J	1.9	6.2	4	9/15/17 1:17	CMR
Carbon Tetrachloride	ND	0.20	0.14		ND	1.3	4	9/15/17 1:17	CMR
Chlorobenzene	ND	0.20	0.13		ND	0.92	4	9/15/17 1:17	CMR
Chloroethane	ND	0.40	0.16		ND	1.1	4	9/15/17 1:17	CMR
Chloroform	ND	0.20	0.15		ND	0.98	4	9/15/17 1:17	CMR
Chloromethane	ND	0.40	0.17		ND	0.83	4	9/15/17 1:17	CMR
Cyclohexane	ND	0.20	0.12		ND	0.69	4	9/15/17 1:17	CMR
Dibromochloromethane	ND	0.20	0.13		ND	1.7	4	9/15/17 1:17	CMR
1,2-Dibromoethane (EDB)	ND	0.20	0.13		ND	1.5	4	9/15/17 1:17	CMR
1,2-Dichlorobenzene	ND	0.20	0.13		ND	1.2	4	9/15/17 1:17	CMR
1,3-Dichlorobenzene	ND	0.20	0.12		ND	1.2	4	9/15/17 1:17	CMR
1,4-Dichlorobenzene	ND	0.20	0.14		ND	1.2	4	9/15/17 1:17	CMR
Dichlorodifluoromethane (Freon 12)	0.45	0.20	0.15		2.2	0.99	4	9/15/17 1:17	CMR
1,1-Dichloroethane	ND	0.20	0.14		ND	0.81	4	9/15/17 1:17	CMR
1,2-Dichloroethane	ND	0.20	0.14		ND	0.81	4	9/15/17 1:17	CMR
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	4	9/15/17 1:17	CMR
cis-1,2-Dichloroethylene	ND	0.20	0.14		ND	0.79	4	9/15/17 1:17	CMR
trans-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	4	9/15/17 1:17	CMR
1,2-Dichloropropane	ND	0.20	0.14		ND	0.92	4	9/15/17 1:17	CMR
cis-1,3-Dichloropropene	ND	0.20	0.17		ND	0.91	4	9/15/17 1:17	CMR
trans-1,3-Dichloropropene	ND	0.20	0.12		ND	0.91	4	9/15/17 1:17	CMR
Ethanol	34	8.0	3.6		65	15	4	9/15/17 1:17	CMR
Ethyl Acetate	0.20	0.40	0.17	J	0.74	1.4	4	9/15/17 1:17	CMR
Ethylbenzene	ND	0.20	0.13		ND	0.87	4	9/15/17 1:17	CMR
4-Ethyltoluene	ND	0.20	0.13		ND	0.98	4	9/15/17 1:17	CMR
Heptane	ND	0.20	0.13		ND	0.82	4	9/15/17 1:17	CMR
Hexachlorobutadiene	ND	0.20	0.15		ND	2.1	4	9/15/17 1:17	CMR
Hexane	ND	8.0	0.35		ND	28	4	9/15/17 1:17	CMR
2-Hexanone (MBK)	ND	0.20	0.12		ND	0.82	4	9/15/17 1:17	CMR
Isopropanol	4.5	8.0	0.25	Z-01, J	11	20	4	9/15/17 1:17	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-7-090717
Sample ID: 17I0332-11
Sample Matrix: Sub Slab
Sampled: 9/7/2017 11:55

Sample Description/Location:
Sub Description/Location:
Canister ID: 1933
Canister Size: 6 liter
Flow Controller ID: 4309
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -7.4
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.14		ND	0.72	4	9/15/17 1:17	CMR
Methylene Chloride	ND	2.0	0.24		ND	6.9	4	9/15/17 1:17	CMR
Methyl methacrylate	ND	0.20	0.15		ND	0.82	4	9/15/17 1:17	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.17		ND	0.82	4	9/15/17 1:17	CMR
Propene	ND	8.0	0.61		ND	14	4	9/15/17 1:17	CMR
Styrene	ND	0.20	0.13		ND	0.85	4	9/15/17 1:17	CMR
1,1,1,2-Tetrachloroethane	ND	0.36	0.13		ND	2.5	4	9/15/17 1:17	CMR
1,1,2,2-Tetrachloroethane	ND	0.20	0.12		ND	1.4	4	9/15/17 1:17	CMR
Tetrachloroethylene	0.73	0.20	0.12		5.0	1.4	4	9/15/17 1:17	CMR
Tetrahydrofuran	45	0.40	0.14		130	1.2	4	9/15/17 1:17	CMR
Toluene	0.31	0.20	0.13		1.2	0.75	4	9/15/17 1:17	CMR
1,2,4-Trichlorobenzene	ND	0.20	0.15		ND	1.5	4	9/15/17 1:17	CMR
1,1,1-Trichloroethane	0.22	0.20	0.14		1.2	1.1	4	9/15/17 1:17	CMR
1,1,2-Trichloroethane	ND	0.20	0.13		ND	1.1	4	9/15/17 1:17	CMR
Trichloroethylene	2.9	0.20	0.13		15	1.1	4	9/15/17 1:17	CMR
Trichlorofluoromethane (Freon 11)	4.1	0.80	0.17		23	4.5	4	9/15/17 1:17	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.14		ND	6.1	4	9/15/17 1:17	CMR
1,2,4-Trimethylbenzene	ND	0.20	0.13		ND	0.98	4	9/15/17 1:17	CMR
1,3,5-Trimethylbenzene	ND	0.20	0.14		ND	0.98	4	9/15/17 1:17	CMR
Vinyl Acetate	ND	4.0	0.12		ND	14	4	9/15/17 1:17	CMR
Vinyl Chloride	ND	0.20	0.15		ND	0.51	4	9/15/17 1:17	CMR
m&p-Xylene	ND	0.40	0.26		ND	1.7	4	9/15/17 1:17	CMR
o-Xylene	ND	0.20	0.12		ND	0.87	4	9/15/17 1:17	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	108	70-130	9/15/17 1:17
4-Bromofluorobenzene (2)	129	70-130	9/15/17 1:17

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

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-Combined-090717
Sample ID: 17I0332-12
Sample Matrix: Sub Slab
Sampled: 9/7/2017 09:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1457
Canister Size: 6 liter
Flow Controller ID: 4181
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	Results	RL	MDL	Flag	Results	RL	Dilution	Analyzed	Analyst
Acetone	3.7	8.0	2.8	J	8.7	19	4	9/15/17 2:31	CMR
Benzene	0.16	0.20	0.13	J	0.51	0.64	4	9/15/17 2:31	CMR
Benzyl chloride	ND	0.20	0.090		ND	1.0	4	9/15/17 2:31	CMR
Bromodichloromethane	ND	0.20	0.13		ND	1.3	4	9/15/17 2:31	CMR
Bromoform	ND	0.20	0.12		ND	2.1	4	9/15/17 2:31	CMR
Bromomethane	ND	0.20	0.16		ND	0.78	4	9/15/17 2:31	CMR
1,3-Butadiene	ND	0.20	0.15		ND	0.44	4	9/15/17 2:31	CMR
2-Butanone (MEK)	0.84	8.0	0.15	J	2.5	24	4	9/15/17 2:31	CMR
Carbon Disulfide	ND	2.0	0.14		ND	6.2	4	9/15/17 2:31	CMR
Carbon Tetrachloride	ND	0.20	0.14		ND	1.3	4	9/15/17 2:31	CMR
Chlorobenzene	ND	0.20	0.13		ND	0.92	4	9/15/17 2:31	CMR
Chloroethane	0.50	0.40	0.16		1.3	1.1	4	9/15/17 2:31	CMR
Chloroform	0.84	0.20	0.15		4.1	0.98	4	9/15/17 2:31	CMR
Chloromethane	ND	0.40	0.17		ND	0.83	4	9/15/17 2:31	CMR
Cyclohexane	ND	0.20	0.12		ND	0.69	4	9/15/17 2:31	CMR
Dibromochloromethane	ND	0.20	0.13		ND	1.7	4	9/15/17 2:31	CMR
1,2-Dibromoethane (EDB)	ND	0.20	0.13		ND	1.5	4	9/15/17 2:31	CMR
1,2-Dichlorobenzene	ND	0.20	0.13		ND	1.2	4	9/15/17 2:31	CMR
1,3-Dichlorobenzene	ND	0.20	0.12		ND	1.2	4	9/15/17 2:31	CMR
1,4-Dichlorobenzene	ND	0.20	0.14		ND	1.2	4	9/15/17 2:31	CMR
Dichlorodifluoromethane (Freon 12)	0.45	0.20	0.15		2.2	0.99	4	9/15/17 2:31	CMR
1,1-Dichloroethane	17	0.20	0.14		67	0.81	4	9/15/17 2:31	CMR
1,2-Dichloroethane	ND	0.20	0.14		ND	0.81	4	9/15/17 2:31	CMR
1,1-Dichloroethylene	6.1	0.20	0.15		24	0.79	4	9/15/17 2:31	CMR
cis-1,2-Dichloroethylene	10	0.20	0.14		41	0.79	4	9/15/17 2:31	CMR
trans-1,2-Dichloroethylene	0.20	0.20	0.15		0.81	0.79	4	9/15/17 2:31	CMR
1,2-Dichloropropane	ND	0.20	0.14		ND	0.92	4	9/15/17 2:31	CMR
cis-1,3-Dichloropropene	ND	0.20	0.17		ND	0.91	4	9/15/17 2:31	CMR
trans-1,3-Dichloropropene	ND	0.20	0.12		ND	0.91	4	9/15/17 2:31	CMR
Ethanol	8.4	8.0	3.6		16	15	4	9/15/17 2:31	CMR
Ethyl Acetate	0.68	0.40	0.17		2.5	1.4	4	9/15/17 2:31	CMR
Ethylbenzene	ND	0.20	0.13		ND	0.87	4	9/15/17 2:31	CMR
4-Ethyltoluene	ND	0.20	0.13		ND	0.98	4	9/15/17 2:31	CMR
Heptane	ND	0.20	0.13		ND	0.82	4	9/15/17 2:31	CMR
Hexachlorobutadiene	ND	0.20	0.15		ND	2.1	4	9/15/17 2:31	CMR
Hexane	ND	8.0	0.35		ND	28	4	9/15/17 2:31	CMR
2-Hexanone (MBK)	ND	0.20	0.12		ND	0.82	4	9/15/17 2:31	CMR
Isopropanol	0.64	8.0	0.25	Z-01, J	1.6	20	4	9/15/17 2:31	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 9/8/2017
Field Sample #: EW-Combined-090717
Sample ID: 17I0332-12
Sample Matrix: Sub Slab
Sampled: 9/7/2017 09:27

Sample Description/Location:
Sub Description/Location:
Canister ID: 1457
Canister Size: 6 liter
Flow Controller ID: 4181
Sample Type: 30 min

Work Order: 17I0332
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.7
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

	ppbv				ug/m3			Date/Time	
Analyte	**Results**	**RL**	**MDL**	**Flag**	**Results**	**RL**	**Dilution**	**Analyzed**	**Analyst**
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.14		ND	0.72	4	9/15/17 2:31	CMR
Methylene Chloride	ND	2.0	0.24		ND	6.9	4	9/15/17 2:31	CMR
Methyl methacrylate	ND	0.20	0.15		ND	0.82	4	9/15/17 2:31	CMR
4-Methyl-2-pentanone (MIBK)	ND	0.20	0.17		ND	0.82	4	9/15/17 2:31	CMR
Propene	ND	8.0	0.61		ND	14	4	9/15/17 2:31	CMR
Styrene	ND	0.20	0.13		ND	0.85	4	9/15/17 2:31	CMR
1,1,1,2-Tetrachloroethane	ND	0.36	0.13		ND	2.5	4	9/15/17 2:31	CMR
1,1,2,2-Tetrachloroethane	ND	0.20	0.12		ND	1.4	4	9/15/17 2:31	CMR
Tetrachloroethylene	38	0.20	0.12		260	1.4	4	9/15/17 2:31	CMR
Tetrahydrofuran	ND	0.40	0.14		ND	1.2	4	9/15/17 2:31	CMR
Toluene	0.34	0.20	0.13		1.3	0.75	4	9/15/17 2:31	CMR
1,2,4-Trichlorobenzene	ND	0.20	0.15		ND	1.5	4	9/15/17 2:31	CMR
1,1,1-Trichloroethane	97	0.20	0.14		530	1.1	4	9/15/17 2:31	CMR
1,1,2-Trichloroethane	ND	0.20	0.13		ND	1.1	4	9/15/17 2:31	CMR
Trichloroethylene	120	0.20	0.13		670	1.1	4	9/15/17 2:31	CMR
Trichlorofluoromethane (Freon 11)	40	0.80	0.17		220	4.5	4	9/15/17 2:31	CMR
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.14		ND	6.1	4	9/15/17 2:31	CMR
1,2,4-Trimethylbenzene	ND	0.20	0.13		ND	0.98	4	9/15/17 2:31	CMR
1,3,5-Trimethylbenzene	ND	0.20	0.14		ND	0.98	4	9/15/17 2:31	CMR
Vinyl Acetate	ND	4.0	0.12		ND	14	4	9/15/17 2:31	CMR
Vinyl Chloride	ND	0.20	0.15		ND	0.51	4	9/15/17 2:31	CMR
m&p-Xylene	ND	0.40	0.26		ND	1.7	4	9/15/17 2:31	CMR
o-Xylene	ND	0.20	0.12		ND	0.87	4	9/15/17 2:31	CMR

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	107	70-130	9/15/17 2:31
4-Bromofluorobenzene (2)	128	70-130	9/15/17 2:31

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
17I0332-01 [IA-1-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-02 [IA-2-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-03 [IA-3-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-04 [IA-4-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-05 [IA-5-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-06 [IA-6-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-07 [IA-7-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-08 [AA-1-090717]	B186540	1.5	1	N/A	1000	400	855	09/14/17
17I0332-09 [EW-5-090717]	B186540	1.5	1	N/A	1000	400	150	09/14/17
17I0332-09RE1 [EW-5-090717]	B186540	1.5	1	N/A	1000	400	15	09/14/17
17I0332-10 [EW-6-090717]	B186540	1.5	1	N/A	1000	400	150	09/14/17
17I0332-11 [EW-7-090717]	B186540	1.5	1	N/A	1000	400	150	09/14/17
17I0332-12 [EW-Combined-090717]	B186540	1.5	1	N/A	1000	400	150	09/14/17

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
17I0332-02RE1 [IA-2-090717]	B186546	1.5	1	N/A	1000	400	150	09/15/17
17I0332-04RE1 [IA-4-090717]	B186546	1.5	1	N/A	1000	400	150	09/15/17
17I0332-05RE1 [IA-5-090717]	B186546	1.5	1	N/A	1000	400	300	09/15/17
17I0332-07RE1 [IA-7-090717]	B186546	1.5	1	N/A	1000	400	300	09/15/17

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186540 - TO-15 Prep											
Blank (B186540-BLK1)					Prepared & Analyzed: 09/14/17						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.035									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									Z-01
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
Methyl methacrylate	ND	0.035									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									
1,1,1,2-Tetrachloroethane	ND	0.064									
1,1,2,2-Tetrachloroethane	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186540 - TO-15 Prep											
Blank (B186540-BLK1)					Prepared & Analyzed: 09/14/17						
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0.035									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*10.1*				*8.00*		*127*	*70-130*			
LCS (B186540-BS1)					Prepared & Analyzed: 09/14/17						
Acetone	3.85				5.00		76.9	70-130			
Benzene	4.94				5.00		98.8	70-130			
Benzyl chloride	6.25				5.00		125	70-130			
Bromodichloromethane	4.66				5.00		93.2	70-130			
Bromoform	5.52				5.00		110	70-130			
Bromomethane	4.78				5.00		95.7	70-130			
1,3-Butadiene	4.82				5.00		96.5	70-130			
2-Butanone (MEK)	4.63				5.00		92.6	70-130			
Carbon Disulfide	4.41				5.00		88.2	70-130			
Carbon Tetrachloride	4.22				5.00		84.5	70-130			
Chlorobenzene	5.35				5.00		107	70-130			
Chloroethane	4.75				5.00		94.9	70-130			
Chloroform	4.61				5.00		92.2	70-130			
Chloromethane	4.81				5.00		96.2	70-130			
Cyclohexane	4.63				5.00		92.6	70-130			
Dibromochloromethane	5.07				5.00		101	70-130			
1,2-Dibromoethane (EDB)	5.12				5.00		102	70-130			
1,2-Dichlorobenzene	5.56				5.00		111	70-130			
1,3-Dichlorobenzene	5.65				5.00		113	70-130			
1,4-Dichlorobenzene	6.05				5.00		121	70-130			
Dichlorodifluoromethane (Freon 12)	4.64				5.00		92.7	70-130			
1,1-Dichloroethane	4.95				5.00		98.9	70-130			
1,2-Dichloroethane	4.40				5.00		87.9	70-130			
1,1-Dichloroethylene	4.47				5.00		89.4	70-130			
cis-1,2-Dichloroethylene	5.07				5.00		101	70-130			
trans-1,2-Dichloroethylene	5.02				5.00		100	70-130			
1,2-Dichloropropane	4.96				5.00		99.2	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B186540 - TO-15 Prep												
LCS (B186540-BS1)					Prepared & Analyzed: 09/14/17							
cis-1,3-Dichloropropene	5.02				5.00		100		70-130			
trans-1,3-Dichloropropene	4.99				5.00		99.9		70-130			
Ethanol	3.63				5.00		72.5		70-130			
Ethyl Acetate	5.21				5.00		104		70-130			
Ethylbenzene	5.12				5.00		102		70-130			
4-Ethyltoluene	5.51				5.00		110		70-130			
Heptane	5.34				5.00		107		70-130			
Hexachlorobutadiene	5.30				5.00		106		70-130			
Hexane	4.60				5.00		92.1		70-130			
2-Hexanone (MBK)	4.83				5.00		96.5		70-130			
Isopropanol	3.50				5.00		**69.9**	*	70-130			Z-01
Methyl tert-Butyl Ether (MTBE)	4.12				5.00		82.5		70-130			
Methylene Chloride	3.79				5.00		75.8		70-130			
Methyl methacrylate	5.23				5.00		105		70-130			
4-Methyl-2-pentanone (MIBK)	4.94				5.00		98.8		70-130			
Propene	5.13				5.00		103		70-130			
Styrene	5.80				5.00		116		70-130			
1,1,1,2-Tetrachloroethane	0.815				0.910		89.6		70-130			
1,1,2,2-Tetrachloroethane	5.48				5.00		110		70-130			
Tetrachloroethylene	5.36				5.00		107		70-130			
Tetrahydrofuran	5.00				5.00		100		70-130			
Toluene	5.29				5.00		106		70-130			
1,2,4-Trichlorobenzene	6.84				5.00		**137**	*	70-130			L-01
1,1,1-Trichloroethane	3.94				5.00		78.8		70-130			
1,1,2-Trichloroethane	4.87				5.00		97.4		70-130			
Trichloroethylene	4.78				5.00		95.7		70-130			
Trichlorofluoromethane (Freon 11)	4.29				5.00		85.8		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.24				5.00		84.7		70-130			
1,2,4-Trimethylbenzene	5.66				5.00		113		70-130			
1,3,5-Trimethylbenzene	5.43				5.00		109		70-130			
Vinyl Acetate	4.27				5.00		85.4		70-130			
Vinyl Chloride	4.79				5.00		95.8		70-130			
m&p-Xylene	10.5				10.0		105		70-130			
o-Xylene	5.34				5.00		107		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.52*				*8.00*		*107*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*10.1*				*8.00*		*126*		*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186540 - TO-15 Prep											
Duplicate (B186540-DUP1)		**Source: 17I0332-10**		Prepared: 09/14/17 Analyzed: 09/15/17							
Acetone	11	8.0	25	19		11			1.57	25	
Benzene	0.15	0.20	0.47	0.64		0.14			2.74	25	J
Benzyl chloride	ND	0.20	ND	1.0		ND				25	
Bromodichloromethane	ND	0.20	ND	1.3		ND				25	
Bromoform	ND	0.20	ND	2.1		ND				25	
Bromomethane	ND	0.20	ND	0.78		ND				25	
1,3-Butadiene	ND	0.20	ND	0.44		ND				25	
2-Butanone (MEK)	39	8.0	110	24		40			2.47	25	
Carbon Disulfide	0.72	2.0	2.3	6.2		0.73			1.10	25	J
Carbon Tetrachloride	ND	0.20	ND	1.3		ND				25	
Chlorobenzene	ND	0.20	ND	0.92		ND				25	
Chloroethane	ND	0.20	ND	0.53		ND				25	
Chloroform	ND	0.20	ND	0.98		ND				25	
Chloromethane	1.6	0.40	3.4	0.83		1.7			3.59	25	
Cyclohexane	ND	0.20	ND	0.69		ND				25	
Dibromochloromethane	ND	0.20	ND	1.7		ND				25	
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5		ND				25	
1,2-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,3-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,4-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
Dichlorodifluoromethane (Freon 12)	0.46	0.20	2.3	0.99		0.45			2.62	25	
1,1-Dichloroethane	0.14	0.20	0.58	0.81		0.14			0.00	25	J
1,2-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,1-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
cis-1,2-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
trans-1,2-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
1,2-Dichloropropane	ND	0.20	ND	0.92		ND				25	
cis-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
Ethanol	8.1	8.0	15	15		8.2			1.58	25	
Ethyl Acetate	1.6	0.20	5.8	0.72		1.6			0.493	25	
Ethylbenzene	ND	0.20	ND	0.87		ND				25	
4-Ethyltoluene	ND	0.20	ND	0.98		ND				25	
Heptane	ND	0.20	ND	0.82		ND				25	
Hexachlorobutadiene	ND	0.20	ND	2.1		ND				25	
Hexane	ND	8.0	ND	28		ND				25	
2-Hexanone (MBK)	ND	0.20	ND	0.82		ND				25	
Isopropanol	1.3	8.0	3.2	20		1.4			3.30	25	Z-01, J
Methyl tert-Butyl Ether (MTBE)	ND	0.20	ND	0.72		ND				25	
Methylene Chloride	0.35	2.0	1.2	6.9		0.34			2.30	25	J
Methyl methacrylate	ND	0.20	ND	0.82		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82		ND				25	
Propene	ND	8.0	ND	14		ND				25	
Styrene	ND	0.20	ND	0.85		ND				25	
1,1,1,2-Tetrachloroethane	ND	0.36	ND	2.5		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4		ND				25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186540 - TO-15 Prep											
Duplicate (B186540-DUP1)			**Source: 17I0332-10**		Prepared: 09/14/17 Analyzed: 09/15/17						
Tetrachloroethylene	ND	0.20	ND	1.4		ND				25	
Tetrahydrofuran	22	0.20	64	0.59		22			1.57	25	
Toluene	0.47	0.20	1.8	0.75		0.46			1.72	25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	0.71	0.20	3.9	1.1		0.71			0.00	25	
1,1,2-Trichloroethane	ND	0.20	ND	1.1		ND				25	
Trichloroethylene	1.2	0.20	6.5	1.1		1.2			1.34	25	
Trichlorofluoromethane (Freon 11)	0.80	0.80	4.5	4.5		0.82			1.48	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
Vinyl Acetate	ND	4.0	ND	14		ND				25	
Vinyl Chloride	ND	0.20	ND	0.51		ND				25	
m&p-Xylene	ND	0.40	ND	1.7		ND				25	
o-Xylene	ND	0.20	ND	0.87		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	*8.53*				*8.00*		*107*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*10.3*				*8.00*		*128*	*70-130*			
Batch B186546 - TO-15 Prep											
Blank (B186546-BLK1)					Prepared & Analyzed: 09/15/17						
Acetone	ND	1.4									
Benzene	ND	0.035									
Benzyl chloride	ND	0.035									
Bromodichloromethane	ND	0.035									
Bromoform	ND	0.035									
Bromomethane	ND	0.035									
1,3-Butadiene	ND	0.035									
2-Butanone (MEK)	ND	1.4									
Carbon Disulfide	ND	0.35									
Carbon Tetrachloride	ND	0.035									
Chlorobenzene	ND	0.035									
Chloroethane	ND	0.035									
Chloroform	ND	0.035									
Chloromethane	ND	0.070									
Cyclohexane	ND	0.035									
Dibromochloromethane	ND	0.035									
1,2-Dibromoethane (EDB)	ND	0.035									
1,2-Dichlorobenzene	ND	0.035									
1,3-Dichlorobenzene	ND	0.035									
1,4-Dichlorobenzene	ND	0.035									
Dichlorodifluoromethane (Freon 12)	ND	0.035									
1,1-Dichloroethane	ND	0.035									
1,2-Dichloroethane	ND	0.035									
1,1-Dichloroethylene	ND	0.035									
cis-1,2-Dichloroethylene	ND	0.035									

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186546 - TO-15 Prep											
Blank (B186546-BLK1)					Prepared & Analyzed: 09/15/17						
trans-1,2-Dichloroethylene	ND	0.035									
1,2-Dichloropropane	ND	0.035									
cis-1,3-Dichloropropene	ND	0.035									
trans-1,3-Dichloropropene	ND	0.035									
Ethanol	ND	1.4									
Ethyl Acetate	ND	0.035									
Ethylbenzene	ND	0.035									
4-Ethyltoluene	ND	0.035									
Heptane	ND	0.035									
Hexachlorobutadiene	ND	0.035									
Hexane	ND	1.4									
2-Hexanone (MBK)	ND	0.035									
Isopropanol	ND	1.4									
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Methylene Chloride	ND	0.35									
Methyl methacrylate	ND	0.035									
4-Methyl-2-pentanone (MIBK)	ND	0.035									
Propene	ND	1.4									
Styrene	ND	0.035									
1,1,1,2-Tetrachloroethane	ND	0.064									
1,1,2,2-Tetrachloroethane	ND	0.035									
Tetrachloroethylene	ND	0.035									
Tetrahydrofuran	ND	0.035									
Toluene	ND	0.035									
1,2,4-Trichlorobenzene	ND	0.035									
1,1,1-Trichloroethane	ND	0.035									
1,1,2-Trichloroethane	ND	0.035									
Trichloroethylene	ND	0.035									
Trichlorofluoromethane (Freon 11)	ND	0.14									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
Vinyl Acetate	ND	0.70									
Vinyl Chloride	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	*8.44*				*8.00*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*0.00*				*8.00*		*	*70-130*			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC		%REC Limits	RPD	RPD Limit	Flag
Batch B186546 - TO-15 Prep												
LCS (B186546-BS1)					Prepared & Analyzed: 09/15/17							
Acetone	4.38				5.00		87.7		70-130			
Benzene	3.66				5.00		73.1		70-130			
Benzyl chloride	5.91				5.00		118		70-130			
Bromodichloromethane	3.96				5.00		79.1		70-130			
Bromoform	4.98				5.00		99.6		70-130			
Bromomethane	5.80				5.00		116		70-130			
1,3-Butadiene	4.79				5.00		95.8		70-130			
2-Butanone (MEK)	3.84				5.00		76.9		70-130			
Carbon Disulfide	5.54				5.00		111		70-130			
Carbon Tetrachloride	4.02				5.00		80.4		70-130			
Chlorobenzene	4.73				5.00		94.7		70-130			
Chloroethane	5.01				5.00		100		70-130			
Chloroform	5.70				5.00		114		70-130			
Chloromethane	4.47				5.00		89.5		70-130			
Cyclohexane	3.39				5.00		**67.8**	*	70-130			
Dibromochloromethane	4.50				5.00		89.9		70-130			
1,2-Dibromoethane (EDB)	4.36				5.00		87.2		70-130			
1,2-Dichlorobenzene	5.05				5.00		101		70-130			
1,3-Dichlorobenzene	5.47				5.00		109		70-130			
1,4-Dichlorobenzene	5.48				5.00		110		70-130			
Dichlorodifluoromethane (Freon 12)	5.63				5.00		113		70-130			
1,1-Dichloroethane	4.86				5.00		97.2		70-130			
1,2-Dichloroethane	5.24				5.00		105		70-130			
1,1-Dichloroethylene	4.56				5.00		91.2		70-130			
cis-1,2-Dichloroethylene	4.85				5.00		96.9		70-130			
trans-1,2-Dichloroethylene	4.71				5.00		94.2		70-130			
1,2-Dichloropropane	3.28				5.00		**65.7**	*	70-130			
cis-1,3-Dichloropropene	3.94				5.00		78.8		70-130			
trans-1,3-Dichloropropene	4.11				5.00		82.1		70-130			
Ethanol	4.23				5.00		84.6		70-130			
Ethyl Acetate	4.90				5.00		98.0		70-130			
Ethylbenzene	4.04				5.00		80.8		70-130			
4-Ethyltoluene	4.62				5.00		92.4		70-130			
Heptane	3.18				5.00		**63.7**	*	70-130			
Hexachlorobutadiene	4.71				5.00		94.2		70-130			
Hexane	4.39				5.00		87.7		70-130			
2-Hexanone (MBK)	3.27				5.00		**65.5**	*	70-130			
Isopropanol	3.44				5.00		**68.9**	*	70-130			
Methyl tert-Butyl Ether (MTBE)	4.99				5.00		99.7		70-130			
Methylene Chloride	3.99				5.00		79.8		70-130			
Methyl methacrylate	3.66				5.00		73.2		70-130			
4-Methyl-2-pentanone (MIBK)	3.53				5.00		70.6		70-130			
Propene	3.96				5.00		79.2		70-130			
Styrene	4.65				5.00		93.1		70-130			
1,1,1,2-Tetrachloroethane	ND	0.091		0.62					70-130			
1,1,2,2-Tetrachloroethane	4.31				5.00		86.2		70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186546 - TO-15 Prep											
LCS (B186546-BS1)					Prepared & Analyzed: 09/15/17						
Tetrachloroethylene	4.44				5.00		88.8	70-130			
Tetrahydrofuran	4.00				5.00		80.1	70-130			
Toluene	3.94				5.00		78.8	70-130			
1,2,4-Trichlorobenzene	5.51				5.00		110	70-130			
1,1,1-Trichloroethane	3.77				5.00		75.3	70-130			
1,1,2-Trichloroethane	4.14				5.00		82.8	70-130			
Trichloroethylene	4.23				5.00		84.6	70-130			
Trichlorofluoromethane (Freon 11)	5.68				5.00		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.89				5.00		118	70-130			
1,2,4-Trimethylbenzene	4.47				5.00		89.4	70-130			
1,3,5-Trimethylbenzene	4.35				5.00		87.1	70-130			
Vinyl Acetate	4.03				5.00		80.6	70-130			
Vinyl Chloride	4.94				5.00		98.7	70-130			
m&p-Xylene	8.52				10.0		85.2	70-130			
o-Xylene	4.45				5.00		89.1	70-130			
Surrogate: 4-Bromofluorobenzene (1)	*8.67*				*8.00*		*108*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*0.00*				*8.00*		*	*70-130*			
Duplicate (B186546-DUP1)			**Source: 17I0332-04RE1**		Prepared & Analyzed: 09/15/17						
Acetone	13	8.0	31	19		14			5.93	25	
Benzene	ND	0.20	ND	0.64		ND				25	
Benzyl chloride	ND	0.20	ND	1.0		ND				25	
Bromodichloromethane	ND	0.20	ND	1.3		ND				25	
Bromoform	ND	0.20	ND	2.1		ND				25	
Bromomethane	ND	0.20	ND	0.78		ND				25	
1,3-Butadiene	ND	0.20	ND	0.44		ND				25	
2-Butanone (MEK)	0.42	8.0	1.3	24		0.46			7.27	25	J
Carbon Disulfide	ND	2.0	ND	6.2		ND				25	
Carbon Tetrachloride	ND	0.20	ND	1.3		ND				25	
Chlorobenzene	ND	0.20	ND	0.92		ND				25	
Chloroethane	ND	0.20	ND	0.53		ND				25	
Chloroform	ND	0.20	ND	0.98		ND				25	
Chloromethane	0.55	0.40	1.1	0.83		0.54			0.733	25	
Cyclohexane	0.28	0.20	0.96	0.69		0.25			10.5	25	
Dibromochloromethane	ND	0.20	ND	1.7		ND				25	
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5		ND				25	
1,2-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,3-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
1,4-Dichlorobenzene	ND	0.20	ND	1.2		ND				25	
Dichlorodifluoromethane (Freon 12)	0.32	0.20	1.6	0.99		0.34			4.88	25	
1,1-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,2-Dichloroethane	ND	0.20	ND	0.81		ND				25	
1,1-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
cis-1,2-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
trans-1,2-Dichloroethylene	ND	0.20	ND	0.79		ND				25	
1,2-Dichloropropane	ND	0.20	ND	0.92		ND				25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv Results	ppbv RL	ug/m3 Results	ug/m3 RL	Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch B186546 - TO-15 Prep											
Duplicate (B186546-DUP1)			**Source: 17I0332-04RE1**		Prepared & Analyzed: 09/15/17						
cis-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
trans-1,3-Dichloropropene	ND	0.20	ND	0.91		ND				25	
Ethanol	150	8.0	280	15		150			4.35	25	
Ethyl Acetate	0.30	0.20	1.1	0.72		0.20			38.1	25	
Ethylbenzene	ND	0.20	ND	0.87		ND				25	
4-Ethyltoluene	ND	0.20	ND	0.98		ND				25	
Heptane	ND	0.20	ND	0.82		ND				25	
Hexachlorobutadiene	ND	0.20	ND	2.1		ND				25	
Hexane	ND	8.0	ND	28		ND				25	
2-Hexanone (MBK)	ND	0.20	ND	0.82		ND				25	
Isopropanol	5.3	8.0	13	20		5.5			4.65	25	J
Methyl tert-Butyl Ether (MTBE)	ND	0.20	ND	0.72		ND				25	
Methylene Chloride	ND	2.0	ND	6.9		ND				25	
Methyl methacrylate	ND	0.20	ND	0.82		ND				25	
4-Methyl-2-pentanone (MIBK)	0.23	0.20	0.95	0.82		0.24			5.04	25	
Propene	1.5	8.0	2.5	14		1.5			3.49	25	J
Styrene	ND	0.20	ND	0.85		ND				25	
1,1,1,2-Tetrachloroethane	ND	0.36	ND	2.5		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4		ND				25	
Tetrachloroethylene	ND	0.20	ND	1.4		ND				25	
Tetrahydrofuran	ND	0.20	ND	0.59		ND				25	
Toluene	0.24	0.20	0.92	0.75		0.24			1.65	25	
1,2,4-Trichlorobenzene	ND	0.20	ND	1.5		ND				25	
1,1,1-Trichloroethane	ND	0.20	ND	1.1		ND				25	
1,1,2-Trichloroethane	ND	0.20	ND	1.1		ND				25	
Trichloroethylene	ND	0.20	ND	1.1		ND				25	
Trichlorofluoromethane (Freon 11)	0.24	0.80	1.3	4.5		0.31			26.1	25	J
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	ND	6.1		ND				25	
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98		ND				25	
Vinyl Acetate	0.30	4.0	1.0	14		0.30			2.67	25	J
Vinyl Chloride	ND	0.20	ND	0.51		ND				25	
m&p-Xylene	ND	0.40	ND	1.7		ND				25	
o-Xylene	ND	0.20	ND	0.87		ND				25	
Surrogate: 4-Bromofluorobenzene (1)	*8.67*				*8.00*		*108*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*0.00*				*8.00*		*	*70-130*			

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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
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
Z-01	Compound fails the method requirement of 70-130% recovery for the LCS. Is classified by the lab as a difficult compound and passes the in house limits of 50-150%.

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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
IA-1-090717 (17I0332-01)			Lab File ID: G091411.D			Analyzed: 09/14/17 16:54			
Bromochloromethane (1)	152435	8.893				60 - 140	8.8930	+/-0.50	
1,4-Difluorobenzene (1)	357347	10.809				60 - 140	10.8090	+/-0.50	
Chlorobenzene-d5 (1)	305610	15.609				60 - 140	15.6090	+/-0.50	
1,4-Difluorobenzene (2)	357347	10.809				60 - 140	10.8090	+/-0.50	
Chlorobenzene-d5 (2)	67182	15.606				60 - 140	15.6060	+/-0.50	
IA-2-090717 (17I0332-02)			Lab File ID: G091412.D			Analyzed: 09/14/17 17:38			
Bromochloromethane (1)	151758	8.886				60 - 140	8.8860	+/-0.50	
1,4-Difluorobenzene (1)	350912	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	293221	15.609				60 - 140	15.6090	+/-0.50	
1,4-Difluorobenzene (2)	350912	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	64725	15.606				60 - 140	15.6060	+/-0.50	
IA-3-090717 (17I0332-03)			Lab File ID: G091413.D			Analyzed: 09/14/17 18:23			
Bromochloromethane (1)	156216	8.889				60 - 140	8.8890	+/-0.50	
1,4-Difluorobenzene (1)	351893	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (1)	303952	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	351893	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (2)	67195	15.603				60 - 140	15.6030	+/-0.50	
IA-4-090717 (17I0332-04)			Lab File ID: G091414.D			Analyzed: 09/14/17 19:07			
Bromochloromethane (1)	151098	8.889				60 - 140	8.8890	+/-0.50	
1,4-Difluorobenzene (1)	345711	10.802				60 - 140	10.8020	+/-0.50	
Chlorobenzene-d5 (1)	293667	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	345711	10.802				60 - 140	10.8020	+/-0.50	
Chlorobenzene-d5 (2)	64685	15.606				60 - 140	15.6060	+/-0.50	
IA-5-090717 (17I0332-05)			Lab File ID: G091415.D			Analyzed: 09/14/17 19:52			
Bromochloromethane (1)	157004	8.893				60 - 140	8.8930	+/-0.50	
1,4-Difluorobenzene (1)	361250	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	307261	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	361250	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	67877	15.606				60 - 140	15.6060	+/-0.50	
IA-6-090717 (17I0332-06)			Lab File ID: G091416.D			Analyzed: 09/14/17 20:40			
Bromochloromethane (1)	154321	8.889				60 - 140	8.8890	+/-0.50	
1,4-Difluorobenzene (1)	349816	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (1)	300453	15.603				60 - 140	15.6030	+/-0.50	
1,4-Difluorobenzene (2)	349816	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (2)	66847	15.603				60 - 140	15.6030	+/-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
IA-7-090717 (17I0332-07)			Lab File ID: G091417.D			Analyzed: 09/14/17 21:25			
Bromochloromethane (1)	155827	8.889				60 - 140	8.8890	+/-0.50	
1,4-Difluorobenzene (1)	356067	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (1)	302922	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	356067	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (2)	67491	15.606				60 - 140	15.6060	+/-0.50	
AA-1-090717 (17I0332-08)			Lab File ID: G091418.D			Analyzed: 09/14/17 22:10			
Bromochloromethane (1)	151144	8.893				60 - 140	8.8930	+/-0.50	
1,4-Difluorobenzene (1)	353488	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	295966	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	353488	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	65427	15.606				60 - 140	15.6060	+/-0.50	
EW-5-090717 (17I0332-09)			Lab File ID: G091419.D			Analyzed: 09/14/17 22:47			
Bromochloromethane (1)	152272	8.896				60 - 140	8.8960	+/-0.50	
1,4-Difluorobenzene (1)	351238	10.809				60 - 140	10.8090	+/-0.50	
Chlorobenzene-d5 (1)	296689	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	351238	10.809				60 - 140	10.8090	+/-0.50	
Chlorobenzene-d5 (2)	64661	15.609				60 - 140	15.6090	+/-0.50	
EW-5-090717 (17I0332-09RE1)			Lab File ID: G091420.D			Analyzed: 09/14/17 23:24			
Bromochloromethane (1)	151649	8.893				60 - 140	8.8930	+/-0.50	
1,4-Difluorobenzene (1)	357571	10.803				60 - 140	10.8030	+/-0.50	
Chlorobenzene-d5 (1)	304150	15.606				60 - 140	15.6060	+/-0.50	
EW-6-090717 (17I0332-10)			Lab File ID: G091421.D			Analyzed: 09/15/17 00:01			
Bromochloromethane (1)	147123	8.892				60 - 140	8.8920	+/-0.50	
1,4-Difluorobenzene (1)	351573	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	295063	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	351573	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	63727	15.609				60 - 140	15.6090	+/-0.50	
EW-7-090717 (17I0332-11)			Lab File ID: G091423.D			Analyzed: 09/15/17 01:17			
Bromochloromethane (1)	148790	8.896				60 - 140	8.8960	+/-0.50	
1,4-Difluorobenzene (1)	356002	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	298626	15.609				60 - 140	15.6090	+/-0.50	
1,4-Difluorobenzene (2)	356002	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	64343	15.606				60 - 140	15.6060	+/-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
EW-Combined-090717 (17I0332-12)			Lab File ID: G091425.D			Analyzed: 09/15/17 02:31			
Bromochloromethane (1)	147605	8.893				60 - 140	8.8930	+/-0.50	
1,4-Difluorobenzene (1)	355997	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (1)	296076	15.606				60 - 140	15.6060	+/-0.50	
1,4-Difluorobenzene (2)	355997	10.806				60 - 140	10.8060	+/-0.50	
Chlorobenzene-d5 (2)	63899	15.606				60 - 140	15.6060	+/-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
IA-2-090717 (17I0332-02RE1)			Lab File ID: F091513.D			Analyzed: 09/15/17 22:25			
Bromochloromethane (1)	203057	8.425				60 - 140	8.4250	+/-0.50	
1,4-Difluorobenzene (1)	696532	10.16				60 - 140	10.1600	+/-0.50	
Chlorobenzene-d5 (1)	642741	14.504				60 - 140	14.5040	+/-0.50	
IA-4-090717 (17I0332-04RE1)			Lab File ID: F091514.D			Analyzed: 09/15/17 23:07			
Bromochloromethane (1)	202030	8.425				60 - 140	8.4250	+/-0.50	
1,4-Difluorobenzene (1)	701782	10.16				60 - 140	10.1600	+/-0.50	
Chlorobenzene-d5 (1)	637551	14.504				60 - 140	14.5040	+/-0.50	
IA-5-090717 (17I0332-05RE1)			Lab File ID: F091516.D			Analyzed: 09/16/17 00:31			
Bromochloromethane (1)	208419	8.425				60 - 140	8.4250	+/-0.50	
1,4-Difluorobenzene (1)	695998	10.16				60 - 140	10.1600	+/-0.50	
Chlorobenzene-d5 (1)	640957	14.503				60 - 140	14.5030	+/-0.50	
IA-7-090717 (17I0332-07RE1)			Lab File ID: F091517.D			Analyzed: 09/16/17 01:15			
Bromochloromethane (1)	203265	8.425				60 - 140	8.4250	+/-0.50	
1,4-Difluorobenzene (1)	683957	10.16				60 - 140	10.1600	+/-0.50	
Chlorobenzene-d5 (1)	634039	14.503				60 - 140	14.5030	+/-0.50	

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CONTINUING CALIBRATION CHECK

COMPOUND	TYPE			RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

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
EPA TO-15 in Air	
Acetone	AIHA,NY,ME
Benzene	AIHA,FL,NJ,NY,VA,ME
Benzyl chloride	AIHA,FL,NJ,NY,VA,ME
Bromodichloromethane	AIHA,NJ,NY,VA,ME
Bromoform	AIHA,NJ,NY,VA,ME
Bromomethane	AIHA,FL,NJ,NY,ME
1,3-Butadiene	AIHA,NJ,NY,VA,ME
2-Butanone (MEK)	AIHA,FL,NJ,NY,VA,ME
Carbon Disulfide	AIHA,NJ,NY,VA,ME
Carbon Tetrachloride	AIHA,FL,NJ,NY,VA,ME
Chlorobenzene	AIHA,FL,NJ,NY,VA,ME
Chloroethane	AIHA,FL,NJ,NY,VA,ME
Chloroform	AIHA,FL,NJ,NY,VA,ME
Chloromethane	AIHA,FL,NJ,NY,VA,ME
Cyclohexane	AIHA,NJ,NY,VA,ME
Dibromochloromethane	AIHA,NY,ME
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,VA,ME
1,3-Dichlorobenzene	AIHA,NJ,NY,ME
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,VA,ME
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME
1,1-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,2-Dichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1-Dichloroethylene	AIHA,FL,NJ,NY,VA,ME
cis-1,2-Dichloroethylene	AIHA,FL,NY,VA,ME
trans-1,2-Dichloroethylene	AIHA,NJ,NY,VA,ME
1,2-Dichloropropane	AIHA,FL,NJ,NY,VA,ME
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,VA,ME
trans-1,3-Dichloropropene	AIHA,NY,ME
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,VA,ME
Hexachlorobutadiene	AIHA,NJ,NY,VA,ME
Hexane	AIHA,FL,NJ,NY,VA,ME
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Methylene Chloride	AIHA,FL,NJ,NY,VA,ME
Methyl methacrylate	AIHA,NJ,NY,VA,ME
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,VA,ME
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,VA,ME
Tetrachloroethylene	AIHA,FL,NJ,NY,VA,ME
Tetrahydrofuran	AIHA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trichlorobenzene	AIHA,NJ,NY,VA,ME
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,VA,ME
Trichloroethylene	AIHA,FL,NJ,NY,VA,ME
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
Vinyl Acetate	AIHA,FL,NJ,NY,VA,ME
Vinyl Chloride	AIHA,FL,NJ,NY,VA,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY

1710332

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (AIR)

Doc #378 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Amec Foster Wheeler
Address: Amec Foster Wheeler – 271 Mill Rd Chelmsford, MA 01824
Phone: 978-692-9090
Project Name: Textron Gorham
Project Location: Providence, RI
Project Number: 3652150001
Project Manager: David Heislein
Con-Test Quote Name/Number: See Quote
Invoice Recipient:
Sampled By: M Maggiore 339-927-3797

Requested Turnaround Time: 7-Day ☑ 10-Day ☐
Due Date:

Rush-Approval Required: 1-Day ☐ 3-Day ☐ 2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☑
Email To: Andrew.Nelson@amecfw.com
Fax To #:

ANALYSIS REQUESTED: TO-15 low level

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	Flow Rate (L/min)	Matrix Code	Volume (Liters)	TO-15 low level	Initial Pressure ("Hg)	Final Pressure ("Hg)	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
01	IA-1-090717	9-7-17 807	9-7-17 832	25	200	IA	6	X	-27	-2	3.8	1944	4292
02	IA-2-090717	9-7-17 731	9-7-17 801	30	200	IA	6	X	-28	-5	5.1	1309	4304
03	IA-3-090717	9-7-17 808	9-7-17 833	25	200	IA	6	X	-27	-3	4.7	1038	4293
04	IA-4-090717	9-7-17 733	9-7-17 803	30	200	IA	6	X	-29	-3	3.9	1750	4305
05	IA-5-090717	9-7-17 1115	9-7-17 1145	30	200	IA	6	X	-28	-5.0	6.9	1936	4213
06	IA-6-090717	9-7-17 1201	9-7-17 1231	30	200	IA	6	X	-30	-8.0	8.1	1196	4314
07	IA-7-090717	9-7-17 1120	9-7-17 1150	30	200	IA	6	X	-28	-6.4	6.3	1959	4308
08	AA-1-090717	9-7-17 938	9-7-17 1006	28	200	AMB	6	X	-30	-2	3.1	1012	4171
09	Ew-5-090717	9-7-17 851	9-7-17 921	30	200	SG	C	X	-29	-6	5.9	1926	4180

Please fill out completely, sign, date and retain the yellow copy for your records

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:
Priscilla Black 9-8-17

Signature	Date/Time
Relinquished by: (signature)	12:20
Received by: (signature) [signature] 9/8/17	1220
Relinquished by: (signature) [signature] 9/8/17	2000
Received by: (signature) [signature] 9/8/17	2000
Relinquished by: (signature)	
Received by: (signature)	

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

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

Detection Limit Requirements
MA:
CT: CT Industrial Commercial
Other: RI

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

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NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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17I0352

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CHAIN OF CUSTODY RECORD (AIR)

Doc #378 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Amec Foster Wheeler
Address: 271 Mill Rd. Chelmsford, MA
Phone: 978-692-4070
Project Name: Textron Corkery
Project Location: Providence, RI
Project Number: 3675215000
Project Manager: David Heslin
Con-Test Quote Name/Number: See Cert
Invoice Recipient:
Sampled By: M. Maggiano

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☑
Email To: Andrew.Nelson@amecfw.com
Fax To #:

ANALYSIS REQUESTED

Lab Use	Client Use	Collection Data		Duration	Flow Rate	Matrix	Volume	TO-15 - low level				" Hg			Please fill out completely, sign, date and retain the yellow copy for your records	
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Total Minutes Sampled	☐ m³/min ☐ L/min	Code	☐ Liters ☐ m³					Initial Pressure	Final Pressure	Lab Receipt Pressure	Summa Can ID	Flow Controller ID
10	EW-6-090717	9-7-17 1117	9-7-17 1527	30	200	SG	6	X				-29	-5.0	3.9	1488	4311
11	EW-7-090717	9-7-17 1125	9-7-17 1535	30	200	SG	6	X				-6	-2.0	7.4	1933	4309
12	EW-(combined)-090717 (MW)	9-7-17 857	9-7-17 927	30	200	SG	6	X				-27	-5	6.7	1457	4101

Summa canisters and flow controllers must be returned within 15 days of receipt or rental fees will apply

For summa canister and flow controller information please refer to Con-Test's Air Media Agreement

Comments:

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

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

X Relinquished by: (signature)		Date/Time: 9-8-17 12:20
Received by: (signature)		Date/Time: 9/8/17 12:20
Relinquished by: (signature)		Date/Time: 9/8/17 20:30
Received by: (signature)		Date/Time: 9/8/17 2000
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
01 Industrial (commercial)
Other:

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

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NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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East Longmeadow, MA. 01028
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Doc# 278 Rev 6 2017

Air Media Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client AMEC

Received By BLF Date 9/8/17 Time 0900

How were the samples received? In Cooler ____ On Ice ____ No Ice ____ In Box T Ambient T Melted Ice ____

Were samples within Temperature Compliance? 2-6°C LA By Gun # ____ Actual Temp - ____ By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? LA Were Samples Tampered with? LA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there any loose caps/valves on any samples? F

Is COC in ink/ Legible? T

Did COC Include all Pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample Labels filled out and legible? T

Are there Rushes? F Who was notified? ____

Samples are received within holding time? T

Proper Media Used? T Individually Certified Cans? F

Are there Trip Blanks? F Is there enough Volume? T

Containers:	#	Size	Regulator	Duration	Accessories:			
Summa Cans	13	6L	13	30 min	Nut/Ferrule	4	IC Train	
Tedlar Bags					Tubing	8ft		
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/TO-11s					Tedlar			

Can #'s					Reg #'s				
1944	1959				4292	4308			
1309	1012				4304	4171			
1038	1920				4293	4180			
1750	1488				4305	4315			
1930	1933				4213	4309			
1190	1457				4314	4181			
Unused Media					**Pufs/TO-17's**				
1898	35.2	4212							

Comments:

APPENDIX B

Con-Test Analytical Laboratory

1/30/2015

Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
TO-15 ppbv low level in Air (EPA TO-15)								
Preservation: NA								
Container: SUMMA Canister			**Amount Required:**				**Hold Time:** 30 days	
Acetone	0.69	2.0 ppbv		25			70 - 130	
Benzene	0.026	0.050 ppbv		25			70 - 130	
Benzyl chloride	0.0097	0.050 ppbv		25			70 - 130	
Bromodichloromethane	0.011	0.050 ppbv		25			70 - 130	
Bromoform	0.0096	0.050 ppbv		25			70 - 130	
Bromomethane	0.034	0.050 ppbv		25			70 - 130	
1,3-Butadiene	0.026	0.050 ppbv		25			70 - 130	
2-Butanone (MEK)	0.037	2.0 ppbv		25			70 - 130	
Carbon Disulfide	0.017	0.50 ppbv		25			70 - 130	
Carbon Tetrachloride	0.012	0.050 ppbv		25			70 - 130	
Chlorobenzene	0.017	0.050 ppbv		25			70 - 130	
Chloroethane	0.019	0.050 ppbv		25			70 - 130	
Chloroform	0.012	0.050 ppbv		25			70 - 130	
Chloromethane	0.022	0.10 ppbv		25			70 - 130	
Cyclohexane	0.029	0.050 ppbv		25			70 - 130	
Dibromochloromethane	0.013	0.050 ppbv		25			70 - 130	
1,2-Dibromoethane (EDB)	0.011	0.050 ppbv		25			70 - 130	
1,2-Dichlorobenzene	0.013	0.050 ppbv		25			70 - 130	
1,3-Dichlorobenzene	0.011	0.050 ppbv		25			70 - 130	
1,4-Dichlorobenzene	0.013	0.050 ppbv		25			70 - 130	
Dichlorodifluoromethane (Freon 12)	0.022	0.050 ppbv		25			70 - 130	
1,1-Dichloroethane	0.014	0.050 ppbv		25			70 - 130	
1,2-Dichloroethane	0.014	0.050 ppbv		25			70 - 130	
1,1-Dichloroethylene	0.012	0.050 ppbv		25			70 - 130	
cis-1,2-Dichloroethylene	0.019	0.050 ppbv		25			70 - 130	
trans-1,2-Dichloroethylene	0.013	0.050 ppbv		25			70 - 130	
1,2-Dichloropropane	0.017	0.050 ppbv		25			70 - 130	
cis-1,3-Dichloropropene	0.013	0.050 ppbv		25			70 - 130	
trans-1,3-Dichloropropene	0.013	0.050 ppbv		25			70 - 130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Fre	0.012	0.050 ppbv		25			70 - 130	
1,4-Dioxane	0.32	0.50 ppbv		25			70 - 130	
Ethanol	0.89	2.0 ppbv		25			70 - 130	
Ethyl Acetate	0.037	0.050 ppbv		25			70 - 130	
Ethylbenzene	0.014	0.050 ppbv		25			70 - 130	
4-Ethyltoluene	0.011	0.050 ppbv		25			70 - 130	
Heptane	0.016	0.050 ppbv		25			70 - 130	
Hexachlorobutadiene	0.019	0.050 ppbv		25			70 - 130	
Hexane	0.088	2.0 ppbv		25			70 - 130	
2-Hexanone (MBK)	0.013	0.050 ppbv		25			70 - 130	
Isopropanol	0.061	2.0 ppbv		25			70 - 130	
Methyl tert-Butyl Ether (MTBE)	0.015	0.050 ppbv		25			70 - 130	
Methylene Chloride	0.061	0.50 ppbv		25			70 - 130	
4-Methyl-2-pentanone (MIBK)	0.012	0.050 ppbv		25			70 - 130	
Naphthalene	0.027	0.050 ppbv		25			70 - 130	
Propene	0.15	2.0 ppbv		25			70 - 130	
Styrene	0.0097	0.050 ppbv		25			70 - 130	

Analytical Method Information

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
1,1,2,2-Tetrachloroethane	0.012	0.050 ppbv		25			70 - 130	
Tetrachloroethylene	0.014	0.050 ppbv		25			70 - 130	
Tetrahydrofuran	0.021	0.050 ppbv		25			70 - 130	
Toluene	0.016	0.050 ppbv		25			70 - 130	
1,2,4-Trichlorobenzene	0.019	0.050 ppbv		25			70 - 130	
1,1,1-Trichloroethane	0.0090	0.050 ppbv		25			70 - 130	
1,1,2-Trichloroethane	0.015	0.050 ppbv		25			70 - 130	
Trichloroethylene	0.015	0.050 ppbv		25			70 - 130	
Trichlorofluoromethane (Freon 11)	0.017	0.050 ppbv		25			70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freo	0.014	0.050 ppbv		25			70 - 130	
1,2,4-Trimethylbenzene	0.012	0.050 ppbv		25			70 - 130	
1,3,5-Trimethylbenzene	0.010	0.050 ppbv		25			70 - 130	
Vinyl Acetate	0.025	1.0 ppbv		25			70 - 130	
Vinyl Chloride	0.021	0.050 ppbv		25			70 - 130	
m&p-Xylene	0.025	0.10 ppbv		25			70 - 130	
o-Xylene	0.014	0.050 ppbv		25			70 - 130	
surr: 4-Bromofluorobenzene (1)			70 - 130					
Bromochloromethane (1)								
1,4-Difluorobenzene (1)								
Chlorobenzene-d5 (1)								