July 29, 2015

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
Second Quarter, 2015
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 quarterly 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 April 2015 through June 2015 and includes one quarterly compliance sampling event (June 11, 2015).

The sampling, analysis and reporting are being conducted consistent with the 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.

The small retail spaces consist of the eastern, central, and western retail spaces (Figure 1). The mitigation systems in the 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 each small retail space.

Small Retail Spaces

The quarterly monitoring event for the three small retail spaces, consistent with the requirements of the Orders of Approval, was completed on June 11, 2015.

Table 1 summarizes the analytical results at the small retail spaces for the baseline sampling event conducted prior to system start-up in February 2009 and all subsequent sampling events conducted after system start-up. 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 (15F0576) associated with the June 11, 2015 quarterly 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 north of the property, upwind of the

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retail building. Sub-slab vacuum monitoring (pressure differential measurements) was also conducted at locations VMW-5, VMW-6, and VMW-7 in conjunction with the quarterly 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 for the June 11, 2015 quarterly sampling event in the small retail spaces (sample locations IA-5 through IA-7) were in compliance with action levels.
- The eastern small retail space (indoor air sample location IA-5) was unoccupied during this sampling event.
- The center small retail space (sample location IA-6) was unoccupied 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 quarterly monitoring event for the large retail space, consistent with the requirements of the Orders of Approval, was completed on June 11, 2015. Table 3 summarizes the analytical results for the large retail space for the baseline sampling event conducted prior to system start-up and all subsequent sampling events conducted after system start-up. 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 (15F0576) associated with June 11, 2015 quarterly 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 north of the property upwind of the retail building. Sub-slab vacuum monitoring (pressure differential measurements) was also conducted 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 quarterly 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 (0.62 ug/m3 vs. 0.50 ug/m3) and IA-4 at (1.2 ug/m3 vs. 0.50 ug/m3).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 large retail space in 2014 and 2015, 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 ApprovalThe 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 locations IA-1 and IA-3, vapor extraction well EW-5 and sub-slab vacuum monitoring VMW-1, VMW-3, and VMW-4.

ASD System Monitoring/Maintenance

The ASD system performance is monitored monthly by Clean Harbors Environmental Services. There was one system shutdown during the reporting period. This shutdown occurred on May 08, 2015 for the change-out of the carbon in the carbon vessels. The spent carbon was removed by Evoqua Water Technologies LLC (Evoqua) and transported, under manifest, as hazardous waste and reactivated at the Evoqua facility in Darlington, Pennsylvania. There were several low flow conditions reported on radon fan 2 & 3 on April 27. Radon fan 2 was reset remotely with the current relay sensor likely the cause for the alarm. Radon fan 3 low flow conditions on April 27 & June 23rd resulted from an electrical power issue inside the retail space and was manually turned on upon inspection.

Next Reporting Period

The next quarterly report (third quarter 2015) will cover the monitoring period from July 2015 through September 2015. The report will be prepared and submitted to the Rhode Island Department of Environmental Management (RIDEM) in October 2015.

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: Don Gralnek, Executive Director - Providence Redevelopment Agency
G. Simpson, Textron, Inc. (Electronic)
Knight Memorial Library Repository
Shane Brackett, Paolino Properties (including tenants)
Joseph P. Salvetti, Norfolk Ram Group, LLC
AMEC Project File

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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
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
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	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	0.19 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
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
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
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
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
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
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
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
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
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
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
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
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
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
1,4-Dioxane																			
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
Methyl methacrylate																			
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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-1-021910 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	AA-1-091214 9/12/2014	AA-1-121914 12/19/2014	AA-01-032715 3/27/2015	AA-1-061115 6/11/2015
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	0.27 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	0.055 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	0.25 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	0.34 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	0.069 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	0.27 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	0.11 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	0.20 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	0.04 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	0.20 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	0.04 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	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	0.15 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	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	0.069 J	0.17 U	0.2	0.059 J
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	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	0.077 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	0.30 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	0.12 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	0.20 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	0.037 J	0.14 U	0.14 U	0.054 J
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	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	0.046 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																				
1,3,5-Trimethylbenzene	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	0.098 U	0.17 U	0.062 J	0.17 U
1,3-Butadiene	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	0.044 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	0.30 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	0.12 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	0.30 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	0.12 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane										0.18 U																
2-Butanone	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	1.1 J	1.2 J	0.96 J	2.1 J
2-Hexanone	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	0.16	0.14 U	0.17	0.17
4-Ethyltoluene	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	0.098 U	0.17 U	0.079 J	0.17 U
4-Methyl-2-pentanone	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	0.036 J	0.14 U	0.092 J	0.14 U
Acetone	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	25	10	8.7	10
Benzene	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	0.2	0.6	0.7	0.41
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	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	0.052 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	0.34 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	0.067 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	0.52 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	0.21 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	0.19 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	0.078 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	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	0.098 J	1.1 U	0.057 J	1.1 U
Carbon tetrachloride	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	0.45	0.36	0.34	0.36
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	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	0.046 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	0.13 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	0.053 U	0.093 U	0.093 U	0.093 U
Chloroform	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	0.08	0.082 J	0.065 J	0.11 J
Chloromethane	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	0.64	0.96	1.1	1.2
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	0.20 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	0.04 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	0.23 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	0.045 U	0.16 U	0.16 U	0.16 U
Cyclohexane	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	0.069 U	0.12 U	0.12 U	0.12 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	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	0.085 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	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	2.2	2.1	1.4	2.3
Ethanol	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	2.9	2.7	2 J	5
Ethyl acetate	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	0.17	0.13 U	0.27	0.13 U
Ethylbenzene	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	0.047 J	0.046 J	0.19	0.1 J
Hexachlorobutadiene	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	0.21 U	0.37 U	0.37 U	0.37 U
Hexane	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	0.19 J	0.39 J	5.1	0.29 J
Isopropyl alcohol	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	0.61 J	3.4 U	0.65 J	0.44 J
m,p-Xylene	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	0.14 J	0.11 J	0.66	0.24 J

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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	0.14 U	0.082 U	0.14 U	0.14 U	
Methylene chloride	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	0.54 J	0.47 J	0.44 J	0.47 J
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	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	0.072 U	0.13 U	0.13 U	0.13 U
n-Heptane	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	0.054 J	0.14 U	0.19	0.14 U
o-Xylene	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	0.054 J	0.046 J	0.25	0.11 J
Propylene (Propene)	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	1.4 U	2.4 U	2.4 U	2.4 U
Styrene	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	0.085 U	0.15 U	0.15 U	0.15 U
Tetrachloroethene	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	0.071	0.09 J	0.22 J	0.29
Tetrahydrofuran	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	0.059 U	0.1 U	0.1 U	0.1 U
Toluene	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	0.33	0.35	1.3	0.51
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	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	0.04 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	0.23 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	0.045 U	0.16 U	0.064 J	0.16 U
Trichloroethene	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	0.052 J	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	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	1.3	1.3	1.1	1.5
Trichlorotrifluoroethane	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	0.57	0.63	0.49 J	0.65 J
Vinyl acetate	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	1.4 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	0.13 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	0.026 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 - Eastern Small Retail Space																	
Parameter (ug/m^3)	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	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
1,1,1-Trichloroethane	190000	41000	17000	7100	1800	2600	3100	1900	3500	920	540	550	460	210	400	340	430	130
1,1,1,2-Tetrachloroethane																	25 U	
1,1,2,2-Tetrachloroethane	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	6.8 U	3.4 U	6.8 U	1.4 U	1.4 U	6.9 U	14 U	3.4 U
1,1,2-Trichloroethane	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	5.4 U	2.7 U	5.4 U	1.1 U	1.1 U	5.5 U	11 U	2.7 U
1,1-Dichloroethane	11000	1900	890	770	190	360	450	430	230	100	50	53	42	29	34	33	44	16
1,1-Dichloroethene	2500	290	130	190	61	160	160	160	98	30	18	21	15	13	15	11	14	5.0
1,2,4-Trichlorobenzene	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	15 U	3.7 U	7.4 U	1.5 U	1.5 U	7.4 U	30 U	7.4 U
1,2,4-Trimethylbenzene	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	5.0 U	2.5 U	5.0 U	0.98 U	0.98 U	4.9 U	9.8 U	2.5 U
1,2-Dibromoethane (EDB)	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	7.6 U	3.8 U	7.6 U	1.5 U	1.5 U	7.7 U	15 U	3.8 U
1,2-Dichlorobenzene	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	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U
1,2-Dichloroethane	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	4.0 U	2.0 U	4.0 U	0.81 U	0.81 U	4.0 U	8.1 U	2.0 U
1,2-Dichloropropane	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	4.6 U	2.3 U	4.6 U	0.92 U	0.92 U	4.6 U	9.2 U	2.3 U
1,2-Dichlorotetrafluoroethane	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	7.0 U	3.5 U	7.0 U					
1,3,5-Trimethylbenzene	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	5.0 U	2.5 U	5.0 U	0.98 U	0.98 U	4.9 U	9.8 U	2.5 U
1,3-Butadiene	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	2.2 U	1.1 U	2.2 U	0.44 U	0.44 U	2.2 U	4.4 U	1.1 U
1,3-Dichlorobenzene	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	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U
1,4-Dichlorobenzene	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	6.0 U	3.0 U	6.0 U	1.2 U	1.2 U	6.0 U	12 U	3.0 U
1,4-Dioxane																	7.2 U	
2-Butanone	6.3	89	75	170	3700	64000	100000	230000	110000	7800	18000	28000	15000	4000	7200 B	17000	13000	2700
2-Hexanone	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	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	82 U	8.2 U	2.0 U
4-Ethyltoluene	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	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-Methyl-2-pentanone	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	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	4.1 U	8.2 U	2.0 U
Acetone	530	32	52	29	460	5600	14000	6900	9200	1700	3200	6000	4500	2000 B	1800 B	2200 B	3400	710
Benzene	13	12	6.2	4.8	5.6	32 U	11	7.1	11	6.3	5.5	8.2	5.0	4.2	4.5	4.2	6.4 U	2.8
Benzyl chloride	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	5.2 U	2.6 U	5.2 U	1.0 U	1.0 U	5.2 U	10 U	2.6 U
Bromodichloromethane	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	6.6 U	3.3 U	6.6 U	1.3 U	1.3 U	6.7 U	13 U	3.4 U
Bromoform	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	11 U	5.1 U	11 U	2.1 U	2.1 U	10 U	21 U	5.2 U
Bromomethane	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	3.8 U	1.9 U	3.8 U	0.78 U	0.78 U	3.9 U	7.8 U	1.9 U
Carbon disulfide	3.2 U	3.2 U	3.2 U	3.2 U	0.80 U	230	4.0	5.4	8.2	2.9	5.7	12	14	8	15	22	62 U	13
Carbon tetrachloride	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	6.2 U	3.1 U	6.2 U	1.3 U	1.3 U	6.3 U	13 U	1.2
Chlorobenzene	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	4.6 U	2.3 U	4.6 U	0.92 U	0.92 U	4.6 U	9.2 U	2.3 U
Chloroethane	260	23	16	11	4.5	26 U	11	15	7.0	6.5	3.5	3.6	5.5	3.1	3.4	2.6 U	7.5	1.3 U
Chloroform	83	32	20	16	2.8	48 U	7.2	6.5	5.8	2.6	4.8 U	2.4 U	4.8 U	1.1	1.2	4.9 U	9.8 U	1.1
Chloromethane	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	2.0 U	1.0 U	2.0 U	0.41 U	0.41 U	2.1 U	4.1 U	1.0 U
cis-1,2-Dichloroethene	2900	710	400	410	100	150	270	250	170	58	32	43	31	17	27	27	35	11
cis-1,3-Dichloropropene	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	4.4 U	2.2 U	4.4 U	0.91 U	0.91 U	4.5 U	9.1 U	2.3 U
Cyclohexane	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	3.4 U	1.7 U	3.4 U	0.69 U	0.69 U	3.4 U	6.9 U	1.7 U
Dibromochloromethane	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	8.6 U	4.3 U	8.6 U	1.7 U	1.7 U	8.5 U	17 U	4.3 U
Dichlorodifluoromethane	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	5.0 U	2.5	5.0 U	2.4	3.7	4.9 U	9.9 U	2.8
Ethanol	320	36	46	33	22	130	30	26	3.8 U	45	28	68	89	23	19	24 J	150 U	12
Ethyl acetate	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	3.6 U	1.8 U	6.8	3.4	0.72 U	3.8	7.2 U	3.6
Ethylbenzene	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	4.4 U	2.2 U	4.4 U	0.87 U	0.87 U	4.3 U	8.7 U	2.2 U
Hexachlorobutadiene	22 U	22 U	22 U	22 U	5.4 U	220 U	11 U	11 U	5.3 U	11 U	22 U	5.3 U	11 U	2.1 U	2.1 U	11 U	21 U	4.2
Hexane	5.0	3.6 U	3.6 U	3.6 U	2.3	36 U	3.3	1.8 U	1.8 U	1.8 U	3.6 U	1.8 U	7.1 U	1.4 U	0.70 U	3.5 U	280 U	70 U
Isopropyl alcohol	190	5.1	4.6	5.0 U	4.6	290	24	57	35	2.5 U	20	54	59	11	13	25 U	200 U	49 U
m,p-Xylene	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	8.6 U	4.3 U	8.6 U	1.7 U	1.7 U	8.7 U	17 U	4.3 U

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																	
Parameter (ug/m^3)	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	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
Methyl methacrylate															0.82 U	4.1 U	8.2 U	2.0 U
Methylene chloride	7.8	7.0 U	9.6	7.0 U	12	720	21	15	7.0 U	25	14 U	8.6	7.0 U	1.4 U	2	6.9 U	69 U	4.2
Methyl-t-butyl ether	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	3.6 U	1.8 U	3.6 U	0.72 U	0.72 U	3.6 U	7.2 U	1.8 U
n-Heptane	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	4.0 U	2.0 U	4.0 U	0.82 U	0.82 U	4.1 U	8.2 U	2.0 U
o-Xylene	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	4.4 U	2.2 U	4.4 U	0.87 U	0.87 U	4.3 U	8.7 U	2.2 U
Propylene (Propene)	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	6.9 U	8.7 U	6.9 U	1.4 U	3.4 U	17 U	140 U	4.1
Styrene	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	4.2 U	2.1 U	4.2 U	0.85 U	0.85 U	4.3 U	8.5 U	2.1 U
Tetrachloroethene	210	310	190	97	8.0	68 U	21	25	19	8.9	6.8 U	6.7	6.8 U	4	4100	6.8 U	14 U	3.5
Tetrahydrofuran	16	110	69	140	2200	42000	61000	150000	94000	9700	23000	37000	29000	8200	11000	30000	41000	11000
Toluene	13	4.7	3.8 U	3.8 U	0.95 U	38 U	2.2	3.4	1.9 U	1.9 U	3.8 U	1.9 U	3.8 U	0.75 U	1.6	3.8 U	7.5 U	0.90
trans-1,2-Dichloroethene	26	6.1	4.0 U	4.7	1.0 U	40 U	2.6	2.8	2.0 U	2.0 U	4.0 U	2.0 U	4.0 U	0.79 U	0.79 U	4.0 U	7.9 U	2.0 U
trans-1,3-Dichloropropene	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	4.4 U	2.2 U	4.4 U	0.91 U	0.91 U	4.5 U	9.1 U	2.3 U
Trichloroethene	51000	20000	14000	8900	2400	3800	4400	2700	6800	1600	1100	1200	1100	410	660	790	940	290
Trichlorofluoromethane	3500	200	120	67	16	56 U	27	41	2.8 U	53	7.0	7.4	5.8	5.1	5.8	5.6 U	11 U	3.4
Trichlorotrifluoroethane	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	7.6 U	3.8 U	7.6 U	1.5 U	1.5 U	7.7 U	15 U	3.8 U
Vinyl acetate	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	7.1 U	1.8 U	7.1 U	1.4 U	0.70 U	70 U	7.0 U	1.8 U
Vinyl chloride	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	3.0	3.4	3.1	4.3	2.4	3.7	3.3	6.2	1.3 U

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-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	EW-05-032715 3/27/2015	EW-5-061115 6/11/2015	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
1,1,1-Trichloroethane	81	100	190	0.55 U	0.55 U	59	180	40	68	54	74	25	14	0.19 J	69000	32000	21000	16000	16000	5600	8200	5700	5400	1100	430	390
1,1,1,2-Tetrachloroethane	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	1.2 U	1.2 U												
1,1,2,2-Tetrachloroethane	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	0.69 U	0.69 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
1,1,2-Trichloroethane	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	0.55 U	0.55 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
1,1-Dichloroethane	11	12	21	0.40 U	0.40 U	6.4	20	4.8	7.0	7.4	9.3	4.2	2.9	0.4 U	5200	2500	2100	2200	1600	780	1200	1100	930	580	47	38
1,1-Dichloroethene	4.5	4.5	6.9	0.40 U	0.40 U	1.7	4.7	1.5	1.8	2	2.4	1	0.9	0.4 U	850	210	100	110	55	74	87	83	80	6.4	3.5	4.0 U
1,2,4-Trichlorobenzene	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	0.74 U	0.74 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
1,2,4-Trimethylbenzene	4.9 U	0.20	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	0.16 J	0.22 J	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
1,2-Dibromoethane (EDB)	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	0.77 U	0.77 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
1,2-Dichlorobenzene	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	0.6 U	0.6 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
1,2-Dichloroethane	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	0.4 U	0.4 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
1,2-Dichloropropane	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	0.46 U	0.46 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
1,2-Dichlorotetrafluoroethane															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	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	0.49 U	0.11 J	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
1,3-Butadiene	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	0.22 U	0.22 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
1,3-Dichlorobenzene	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	0.6 U	0.6 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
1,4-Dichlorobenzene	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	0.6 U	0.6 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
1,4-Dioxane																										
2-Butanone	1800	870	840	9.5	1.7	1900	31000	680	1200	2100	3800	260	91	9.1 J	120	280	300	130	97	160	37	65	8.7	23	1800	110
2-Hexanone	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	0.16 J	0.34 J	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
4-Ethyltoluene	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	0.49 U	0.49 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
4-Methyl-2-pentanone	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	0.41 U	0.41 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
Acetone	400	440	670	11	8.5	610	6800	210	380	610	500	98	49	21	580	64	81	33	22	410	16	20	4.8 U	27	490	70
Benzene	2.0	1.1	3.7	0.54	0.47	1.0	7.1	2.4	3.8	3	2.7	3.4	3.1	0.4	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
Benzyl chloride	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	0.52 U	0.52 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
Bromodichloromethane	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	0.67 U	0.67 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
Bromoform	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	1 U	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
Bromomethane	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	0.39 U	0.39 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
Carbon disulfide	11	25	49	3.1 U	3.1 U	19	77	8.9	26	35	46	13	7.4	0.98 J	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	8.0	12
Carbon tetrachloride	3.1 U	0.40	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	0.31 J	0.33 J	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
Chlorobenzene	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	0.46 U	0.46 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
Chloroethane	2.6 U	2.9	5.3	0.26 U	0.26 U	1.5	4.0	0.86	1.9	1.9	1.6	1.0	0.26 U	0.26 U	140	50	34	18	13	26 U	13	14	11	4.0	1.3 U	2.8
Chloroform	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	0.18 J	0.17 J	42	24	19	29	21	50	14	12	12	7.2	3.7	4.8 U
Chloromethane	2.1 U	0.21 U	0.21 U	1.0	1.1	0.41 U	0.19 U	0.41 U	0.41 U	0.41 U	61	0.41 U	0.41 U	0.41 U	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
cis-1,2-Dichloroethene	6.9	8.6	14	0.40 U	0.40 U	4.3	13	1.9	4.1	4.3	5	1.4	0.78	0.4 U	700	360	220	250	150	120	190	170	130	36	11	7.9
cis-1,3-Dichloropropene	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	0.45 U	0.45 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
Cyclohexane	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	0.34 U	0.34 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
Dibromochloromethane	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	0.85 U	0.85 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
Dichlorodifluoromethane	4.9 U	2.9	2.6	2.5	2.5	2.1	1.7	2.5	2.1	2	2.3	2.5	2	3.3	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
Ethanol	290	14	100	9.9	3.5	13	3.5 U	39	43	32	15	33	31	15	360	38	73	38	25	110	18	14	6.7	18	15	19 U
Ethyl acetate	26	4.2	30	0.36 U	1.2	2.6	0.17 U	5.5	4.8	3.4	3.6	3.6	2.6	0.36 U	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
Ethylbenzene	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	0.16 J	0.15 J	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
Hexachlorobutadiene	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	1.1 U	1.1 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
Hexane	9.4	4.3	2.0	0.74	2.2	14 U	6.6 U	14. U	14 U	14 U	28 U	14 U	7.4 J	1.4 J	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
Isopropyl alcohol	13	9.8 U	11	1.1	9.8 U	9.8 U	4.6 U	2.9	6.0	11.0	8.4 J	2 J	9.8 J	9.8 U	210	18	33	15	10	230	8.2	11	20	2.5 U	1.2 U	9.4
m,p-Xylene	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	0.39 J	0.54 J	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

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-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	EW-05-032715 3/27/2015	EW-5-061115 6/11/2015	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
Methyl methacrylate	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	0.41 U													
Methylene chloride	15	11	2.5	1.8	6.9	1.1	3.4	1.1	0.79	0.99	1.6 J	3.5 U	0.44 J	1.9 J	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
Methyl-t-butyl ether	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	0.36 U	0.36 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
n-Heptane	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	0.41 U	0.41 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
o-Xylene	4.3 U	0.14	0.73	0.43 U	0.43 U	0.43 U	0.50	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.15 J	0.25 J	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
Propylene (Propene)	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	6.9 U	6.9 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
Styrene	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	0.43 U	0.43 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
Tetrachloroethene	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	0.68 U	0.24 J	330	290	130	290	190	300	190	210	250	68	34	23
Tetrahydrofuran	4500	7700	1000	0.29 U	0.29 U	2300	26000	1000	2900	2600	3300	460	320	1.9	75	480	260	730	570	130	110	87	9.1	31	42000	53000
Toluene	37	0.58	5.6	0.66	0.40	0.43	4.2	0.44	1.4	1.7	1.1	0.36 J	0.55	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
trans-1,2-Dichloroethene	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	0.4 U	0.4 U	12	6.3	4.2	6.4	4.0 U	40 U	2.6	2.7	2.0	2.1	2.0 U	4.0 U
trans-1,3-Dichloropropene	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	0.45 U	0.45 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
Trichloroethene	170	220	400	0.54 U	0.54 U	150	770	80	190	160	200	66	38	0.54 U	12000	6900	4200	4400	4800	3900	5400	4700	6100	2000	730	650
Trichlorofluoromethane	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	1.9 J	1.7 J	2300	870	630	350	250	150	230	440	700	320	6.7	25
Trichlorotrifluoroethane	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	0.44 J	0.64 J	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
Vinyl acetate	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	7 U	7 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
Vinyl chloride	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	0.15 J	0.26 U	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

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-6-120710 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-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
1,1,1-Trichloroethane	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	19	13	5600	8500	7800	8200	8100	1600	3600
1,1,1,2-Tetrachloroethane				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							
1,1,2,2-Tetrachloroethane	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	6.8 U	1.4 U	1.7 U	1.7 U	1.7 U	6.8 U	3.4 U
1,1,2-Trichloroethane	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	5.4 U	1.1 U	1.4 U	1.4 U	1.4 U	5.4 U	2.7 U
1,1-Dichloroethane	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	3.5	2.5	1700	1800	1600	2100	1700	590	1000
1,1-Dichloroethene	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	14	15	8.5	9.4	6.6	4.0 U	4.2
1,2,4-Trichlorobenzene	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	7.4 U	1.5 U	1.9 U	1.9 U	1.9 U	7.4 U	3.7 U
1,2,4-Trimethylbenzene	0.49 U	0.49 U	4.9 U	9.8 U	2.5 U	0.49 U	0.26	0.60	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	0.49 U	0.24 J	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U
1,2-Dibromoethane (EDB)	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	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U
1,2-Dichlorobenzene	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	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U
1,2-Dichloroethane	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	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U
1,2-Dichloropropane	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	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U
1,2-Dichlorotetrafluoroethane																				7.0 U	1.4 U	1.8 U	1.8 U	1.8 U	7.0 U	3.5 U
1,3,5-Trimethylbenzene	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	0.30	0.49 U	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U
1,3-Butadiene	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	2.2 U	0.44 U	0.55 U	0.55 U	0.55 U	2.2 U	1.1 U
1,3-Dichlorobenzene	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	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U
1,4-Dichlorobenzene	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	6.0 U	1.2 U	1.5 U	1.5 U	1.5 U	6.0 U	3.0 U
1,4-Dioxane				7.2 U																						
2-Butanone	20	1.9 B	59 U	240 U	13	2.1	200	3.7	0.84	1.9	120	95	4.0	4.0	6.8	11 J	5.2 J	5.2 J	13.0	8.7	12	7.3	8.5	5.5	4.5	7.1
2-Hexanone	0.41 U	0.41 U	82 U	8.2 U	2.0 U	0.41 U	0.70	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	0.41 U	0.18 J	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U
4-Ethyltoluene	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	5.0 U	1.0 U	1.3 U	1.3 U	1.3 U	5.0 U	2.5 U
4-Methyl-2-pentanone	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	0.41 U	0.41 U	4.0 U	0.80 U	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U
Acetone	15 B	15 B	48 U	190 U	21	9.9	36	25	6.4	6.3	42	35	17	16	27	36	35	35	35	580	38	58	30	24	15	24
Benzene	0.92	1.1	3.2 U	6.4 U	1.6 U	0.31	1.2	0.77	0.39	0.40	0.32 U	1.2	0.42	0.96	0.73	1.1	0.7	0.7	0.56	3.2 U	3.9	4.5	1.9	2.3	3.2 U	2.6
Benzyl chloride	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	5.2 U	1.1 U	1.3 U	1.3 U	1.3 U	5.2 U	2.6 U
Bromodichloromethane	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	6.6 U	1.4 U	1.7 U	1.7 U	1.7 U	6.6 U	3.3 U
Bromoform	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	11 U	2.1 U	2.6 U	2.6 U	2.6 U	11 U	5.1 U
Bromomethane	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	3.8 U	0.76 U	0.95 U	0.95 U	0.95 U	3.8 U	1.9 U
Carbon disulfide	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	8	14	5.7	3.4	2.7	3.7	3.3	3.2 U	3.2
Carbon tetrachloride	0.63 U	0.63 U	6.3 U	13 U	3.1 U	0.39	0.34	0.40	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	0.35 J	0.36 J	6.2 U	1.3 U	1.6 U	1.6 U	1.6 U	6.2 U	3.1 U
Chlorobenzene	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	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U
Chloroethane	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	170	150	88	41	33	7.1	9.6
Chloroform	2.4	0.49 U	4.9 U	9.8 U	1.0	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	0.63	0.45 J	4.8 U	1.0	1.2 U	1.3	1.2 U	4.8 U	2.7
Chloromethane	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	1.4	3.6	2.0 U	0.40 U	0.50 U	0.50 U	0.50 U	2.0 U	1.0 U
cis-1,2-Dichloroethene	2.3	0.40 U	4.0 U	7.9 U	0.83	0.20 U	2.8	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.71	1.1	0.21 J	0.21 J	0.25 J	1100	1300	1200	1700	1200	520	1100
cis-1,3-Dichloropropene	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	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U
Cyclohexane	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	3.4 U	5.6	5.0	3.7	2.1	3.4 U	1.7 U
Dibromochloromethane	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	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 U
Dichlorodifluoromethane	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	2.3	2.6	2.6	2.7	5.0 U	2.5	3.2	770	2.6	5.0 U	2.9
Ethanol	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	3.5 J	27	350	26	29	17	15	3.8 U	19
Ethyl acetate	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	0.36 U	0.36 U	7.3 U	0.72 U	0.90 U	1.9 U	0.90 U	7.3 U	1.8 U
Ethylbenzene	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	0.43 U	0.43 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U
Hexachlorobutadiene	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	22 U	4.3 U	5.4 U	5.4 U	5.4 U	22 U	11 U
Hexane	0.7 U	1.3	3.5 U	280 U	70 U	1.4	1.2	7.6	14. U	0.60	1.6	0.89	14. U	14 U	14 U	28 U	14 U	14 U	14 U	10	10	7.6	5.5	3.1	3.6 U	4.0
Isopropyl alcohol	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	9.8 U	5 J	210	18	21	12	8.5	5.0 U	12
m,p-Xylene	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	0.87 U	0.3 J	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 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																			Extraction Well - Western Small Retail Space						
Parameter (ug/m^3)	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-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
Methyl methacrylate		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									
Methylene chloride	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	3.5 U	3.5 U	9.3	2.6	8.0	1.8	1.8 U	20	29
Methyl-t-butyl ether	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	3.6 U	3.5	2.9	4.9	3.1	3.6 U	1.8 U
n-Heptane	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	4.0 U	1.4	1.0 U	1.0 U	1.0 U	4.0 U	2.0 U
o-Xylene	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	0.43 U	0.43 U	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U
Propylene (Propene)	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	0.84 J	6.9 U	3.5 U	160	110	0.87 U	0.45 U	3.5 U	0.90 U
Styrene	0.43 U	0.43 U	4.3 U	8.5 U	2.1 U	0.43 U	0.20	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	4.2 U	0.84 U	1.1 U	1.1 U	1.1 U	4.2 U	2.1 U
Tetrachloroethene	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	3.1	1.1	66	69	56	84	69	40	140
Tetrahydrofuran	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	260	600	41	23	12	14	7.5	3.0 U	5.6
Toluene	0.38 U	2.4	3.8 U	9.8	1.9 U	0.36	0.70	5.3	0.46	0.31	0.50	2.5	0.38 U	1.0	1.0	0.68 J	0.25 J	0.25 J	0.7	14	2.9	3.6	1.7	0.95 U	3.8 U	1.9 U
trans-1,2-Dichloroethene	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	150	140	90	90	80	48	120
trans-1,3-Dichloropropene	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	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U
Trichloroethene	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	44	25	230	210	180	180	200	110	330
Trichlorofluoromethane	28	1.7	11	34	11	1.0	15	2.0	1.9	1.3	4.7	6.2	12	6.9	14	21	15	15	12	1800	1400	900	690	640	190	310
Trichlorotrifluoroethane	0.77 U	0.86	7.7 U	15 U	3.8 U	0.38 U	0.77 U	0.60	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	0.63 J	0.58 J	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U
Vinyl acetate	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	15 U	0.72 U	0.90 U	3.6 U	0.90 U	15 U	1.8 U
Vinyl chloride	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	280	370	180	48	21	2.6 U	2.7

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																								
Parameter (ug/m^3)	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
1,1,1-Trichloroethane	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
1,1,1,2-Tetrachloroethane										2.5 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	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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-Dichloroethane	1100	970	470	85	320	340	220	150	45	150	80	6.4	42	100	0.40 U	2.0	7.0	51	25	12	6.9	5.4	20	1.8	4.9	3.7
1,1-Dichloroethene	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
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	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	0.30	0.49 U	0.50	0.77	0.58	0.49 U	0.49 U	0.98 U	0.49 U	1.4	0.44 J
1,2-Dibromoethane (EDB)	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
1,2-Dichlorobenzene	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-Dichloroethane	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
1,2-Dichloropropane	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
1,2-Dichlorotetrafluoroethane	3.5 U	3.5 U	3.5 U	0.70 U	0.70 U	0.70 U																				
1,3,5-Trimethylbenzene	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	0.50	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
1,3-Butadiene	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
1,3-Dichlorobenzene	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
1,4-Dichlorobenzene	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
1,4-Dioxane										0.72 U																
2-Butanone	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
2-Hexanone	2.0 U	2.0 U	2.0 U	0.40 U	1.0	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
4-Ethyltoluene	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
4-Methyl-2-pentanone	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
Acetone	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
Benzene	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	0.89	0.54	0.61	1.9	1.9	0.86	1.3	1.1	0.59 J	0.49	2.1	2.3
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	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
Bromomethane	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
Carbon disulfide	2.7	2.1	1.6 U	1.5	0.93	0.90	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
Carbon tetrachloride	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	0.30	0.33	0.78	0.47	0.63 U	0.38	0.40	0.63 U	0.63 U	0.63 U	0.63 U	0.36 J	0.21 J	0.33 J
Chlorobenzene	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
Chloroethane	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
Chloroform	2.6	4.6	2.7	1.1	4.2	4.4	3.9	3	4.9 U	5.0	3.8	2.4 U	3.1	4.1	0.49 U	0.36	2.0	6.6	2.7	2.6	2.0	2.4	3.8	0.9	2.1	2.6
Chloromethane	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	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
cis-1,2-Dichloroethene	1200	1300	680	120	660	490	350	250	65	210	99	5.1	53	120	0.40 U	1.4	5.1	54	24	6.0	5.0	4.7	18.0	1.0	3.1	2.5
cis-1,3-Dichloropropene	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
Cyclohexane	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
Dibromochloromethane	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
Dichlorodifluoromethane	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
Ethanol	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
Ethyl acetate	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	3.0	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
Ethylbenzene	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
Hexachlorobutadiene	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
Hexane	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	0.55	14 U	1.5	3.5	0.78	0.90	0.90	14. U	14 U	14 U	28 U	14 U	8.1 J	14 U
Isopropyl alcohol	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
m,p-Xylene	4.3 U	4.3 U	4.3 U	1.4	0.93	1.0	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	0.50	1.0	1.5	0.87 U	0.49	0.9	1.7 U	0.26 J	0.68 J	0.5 J

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																								
Parameter (ug/m^3)	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
Methyl methacrylate								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	
Methylene chloride	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
Methyl-t-butyl ether	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
n-Heptane	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
o-Xylene	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	0.40	0.73	0.43 U	0.43 U	0.43 U	0.87 U	0.43 U	0.57	0.22 J
Propylene (Propene)	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
Styrene	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
Tetrachloroethene	230	410	130	74	510	610	190	110	120	450	170	5.6	130	200	1.3	3.0	100	410	150	140	81	110	370	18	81	89
Tetrahydrofuran	15	4.1	1.5 U	2800	0.70	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
Toluene	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	1.0	1.2	1.4	0.59 J	0.63	0.72	1.0
trans-1,2-Dichloroethene	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
trans-1,3-Dichloropropene	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
Trichloroethene	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
Trichlorofluoromethane	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
Trichlorotrifluoroethane	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	1.0	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
Vinyl acetate	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
Vinyl chloride	3.2	1.3 U	1.6	1.0	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	0.90	0.090 U	0.26 U	0.26 U	1.5	1.8	0.26 U	0.16 J	0.82	1.4

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

Parameter (ug/m^3)	CT IACTIND 2003 (ug/m^3)	Indoor Air - Eastern Small Retail Space																	
		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
1,1,1-Trichloroethane	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
1,1,1,2-Tetrachloroethane	1.1																		0.62 U
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	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
1,1-Dichloroethene	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
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	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
1,2-Dibromoethane (EDB)	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
1,2-Dichlorobenzene	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
1,2-Dichloroethane	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
1,2-Dichloropropane	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
1,2-Dichlorotetrafluoroethane	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	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
1,3-Butadiene	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
1,3-Dichlorobenzene	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
1,4-Dichlorobenzene	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
1,4-Dioxane	NA															0.18 U			0.18 U
2-Butanone	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
2-Hexanone	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
4-Ethyltoluene	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
4-Methyl-2-pentanone	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
Acetone	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
Benzene	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
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	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
Bromomethane	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
Carbon disulfide	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
Carbon tetrachloride	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
Chlorobenzene	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
Chloroethane	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
Chloroform	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
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	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
Cyclohexane	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
Dibromochloromethane	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
Dichlorodifluoromethane	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
Ethanol	NA	590	12	23	140	85	32	41	180	500	62	51	25	58	150	2.4	14	7.7	7.9
Ethyl acetate	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
Ethylbenzene	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
Hexachlorobutadiene	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
Hexane	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
Isopropyl alcohol	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
m,p-Xylene	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

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

Parameter (ug/m^3)	CT IACTIND 2003 (ug/m^3)	Indoor Air - Eastern Small Retail Space																	
		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
Methyl methacrylate	NA															0.20 U	0.20 U	0.20 U	0.20 U
Methylene chloride	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
Methyl-t-butyl ether	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
n-Heptane	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
o-Xylene	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
Propylene (Propene)	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
Styrene	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
Tetrachloroethene	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
Tetrahydrofuran	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
Toluene	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
trans-1,2-Dichloroethene	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
trans-1,3-Dichloropropene	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
Trichloroethene	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
Trichlorofluoromethane	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
Trichlorotrifluoroethane	NA	0.62	0.54	0.48	0.45	0.64	0.48	0.53	0.61	0.54	0.50	0.54	0.55	0.55	0.43	0.52	0.66	0.69	0.63
Vinyl acetate	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
Vinyl chloride	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

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															Indoor Air - Center Small Retail Space										
Parameter (ug/m^3)	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-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	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
1,1,1-Trichloroethane	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	110	3.9	0.27 U	0.29	0.27 U	0.27 U	1.6	0.27 U	0.27 U	0.27 U	0.27 U
1,1,1,2-Tetrachloroethane		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												
1,1,2,2-Tetrachloroethane	**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	0.34 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
1,1,2-Trichloroethane	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	0.27 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
1,1-Dichloroethane	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	3.9	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
1,1-Dichloroethene	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	1.2	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
1,2,4-Trichlorobenzene	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	0.37 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
1,2,4-Trimethylbenzene	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	0.75	0.32	0.29	1.5	0.25 U	0.25 U	0.18 U	0.25 U	0.29	0.34	0.25 U
1,2-Dibromoethane (EDB)	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	0.38 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
1,2-Dichlorobenzene	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	0.30 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
1,2-Dichloroethane	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	0.20 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
1,2-Dichloropropane	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	0.23 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
1,2-Dichlorotetrafluoroethane																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
1,3,5-Trimethylbenzene	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	0.25 U	0.25 U	0.25 U	0.38	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Butadiene	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	0.11 U	0.11 U	0.11 U	1.1	0.11 U	0.11 U	0.080 U	0.11 U	0.11 U	0.23 U	0.11 U
1,3-Dichlorobenzene	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	0.30 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
1,4-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.41	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane																										
2-Butanone	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	120	10	3.2	2.9	2.4	2.3	1.0	2.5	4.1	2.4	1.8
2-Hexanone	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	0.20 U	0.42	0.37	0.34	0.20 U	0.37	0.14 U	0.62	0.72	0.70	0.20 U
4-Ethyltoluene	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	0.25 U	0.25 U	0.25 U	0.47	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Methyl-2-pentanone	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	0.20 U	0.20 U	0.20 U	0.36	0.20 U	0.20 U	0.14 U	0.34	0.70	0.29	0.20 U
Acetone	6.6	11	13	13	9.0	9.7	24	19	40	12	25	10	10	14	12	44	14	14	25	11	8.5	6.1	11	28	20	14
Benzene	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	1.0	0.60	0.98	**4.1 [a]**	0.41	0.70	0.59	0.47	0.43	0.31	0.40
Benzyl chloride	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	0.26 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
Bromodichloromethane	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	0.33 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
Bromoform	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	0.51 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
Bromomethane	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	0.19 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
Carbon disulfide	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	0.16 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
Carbon tetrachloride	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	0.39	0.42	0.52	**0.59 [a]**	0.47	**0.6 [a]**	0.42	**0.77 [a]**	0.45	0.42	0.40
Chlorobenzene	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	0.23 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
Chloroethane	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	0.13 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
Chloroform	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	0.24 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
Chloromethane	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	1.3	0.90	1.4	1.5	1.0	1.1	1.1	1.1	1.9	0.97	1.8
cis-1,2-Dichloroethene	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	0.40	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
cis-1,3-Dichloropropene	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	0.22 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
Cyclohexane	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	0.17 U	0.17 U	0.25	0.91	0.17 U	0.17 U	0.12 U	0.17 U	0.17 U	0.17 U	0.17 U
Dibromochloromethane	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	0.43 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
Dichlorodifluoromethane	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	2.0	2.1	2.6	2.8	2.6	2.6	2.0	2.7	2.5	2.2	1.9
Ethanol	5.4	14	43	11	3.9	1.9	12	15	4.5	18	20	7.7	7.7	12	25	41	23	12	40	13	12	8.6	51	31	12	10
Ethyl acetate	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	0.37 U	0.37 U	0.18 U	0.22	0.37 U	0.18 U	0.26 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	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	0.29	0.25	0.33	1.6	0.22 U	0.22 U	0.21	0.22 U	0.24	0.23	0.22 U
Hexachlorobutadiene	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	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
Hexane	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	1.2	0.78	0.70	2.6	0.33	0.40	0.63	0.38	0.68	0.45	0.18 U
Isopropyl alcohol	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	4.7	6.6	3.2	4.9	1.7	1.6	0.18 U	4.5	22	7.0	1.4
m,p-Xylene	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	0.82	0.72	0.84	4.9	0.43 U	0.43 U	0.51	0.43 U	0.67	0.62	0.43 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															Indoor Air - Center Small Retail Space										
Parameter (ug/m^3)	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-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	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
Methyl methacrylate	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													
Methylene chloride	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	2.5	5.2	0.59	1.6	0.83	0.69	2.0	2.0	2.6	0.70 U	2.9
Methyl-t-butyl ether	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	0.18 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
n-Heptane	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	0.27	0.20 U	0.32	1.3	0.20 U	0.20 U	0.21	0.20 U	0.26	0.20 U	0.20 U
o-Xylene	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	0.26	0.34	1.8	0.22 U	0.22 U	0.19	0.22 U	0.25	0.23	0.22 U
Propylene (Propene)	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	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
Styrene	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	0.21 U	0.21 U	0.21 U	0.28	0.21 U	0.21 U	0.15 U	0.25	0.21 U	0.23	0.21 U
Tetrachloroethene	**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	1.2	0.34 U	0.45	1.2	0.34 U	0.34 U	0.72	0.34 U	0.34 U	0.34 U	0.34 U
Tetrahydrofuran	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	77	2.8	0.32	0.15 U	0.15 U	0.15 U	0.22	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	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	1.8	1.3	2.5	11	0.65	0.71	1.3	0.81	2.0	1.1	0.49
trans-1,2-Dichloroethene	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	0.20 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
trans-1,3-Dichloropropene	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	0.22 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
Trichloroethene	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	**13**	**1.7**	0.27 U	0.34	0.27 U	0.27 U	0.60	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	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	4.8	1.3	1.7	2.5	1.5	1.7	1.4	1.2	2.2	1.2	1.7
Trichlorotrifluoroethane	0.69	0.46	0.53	0.60	0.61	0.60	1.4	0.63	0.54	0.47	0.58	0.64	0.64	0.49 J	0.67 J	0.64	0.51	0.48	0.45	0.64	0.48	0.53	0.74	0.63	0.48	0.51
Vinyl acetate	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	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
Vinyl chloride	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	0.13 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

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

	Indoor Air - Center Small Retail Space																				
Parameter (ug/m^3)	IA-6-032610 3/26/2010	IA-6-070110 7/1/2010	IA-6-091610 9/16/2010	IA-6-120710 12/7/2010	IA-6-021711 2/17/2011	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	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
1,1,1-Trichloroethane	0.35	0.27 U	0.27 U	0.27 U	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	0.19 U	0.19 U	0.19 U	0.19 U	0.12	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
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	0.21 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
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	0.16 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
1,1-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 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	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	0.12 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
1,2,4-Trichlorobenzene	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	2.8	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
1,2,4-Trimethylbenzene	0.25 U	0.25 U	0.33	0.25 U	0.35	0.25 U	0.25	0.16	0.15 U	0.21	0.17 U	0.17 U	0.076	0.21	0.27	0.17 U	0.55	0.21	0.29	0.17 U	0.13 J	0.13 J
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	0.23 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
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	1.7	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
1,2-Dichloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.056	0.061 U	0.056	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.039 J	0.14 U	0.14 U	0.054 J
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.14 U	0.069 U	0.061	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	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	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	0.059	0.15 U	0.091	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.071 J	0.17 U	0.038 J	0.052 J
1,3-Butadiene	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	0.59	0.078 U	0.044 U	0.078 U	0.061 J	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	0.18 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
1,4-Dichlorobenzene	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.18 U	0.18 U	0.13	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
1,4-Dioxane							0.18 U															
2-Butanone	1.4	1.1	0.89	0.87	1.9 B	2.9 U	5.9 U	1.3	0.63	1.4	2.8	1.4	1.4	0.91	2.8	2.2	1.6	3.1	0.66 J	0.81 J	1 J	1.2 J
2-Hexanone	0.26	0.20 U	0.20 U	0.20 U	0.22	4.1 U	0.60	0.15	0.12 U	0.20	0.27	0.14 U	0.20	0.14 U	0.48	0.14 U	0.29	0.41	0.043 J	0.14 U	0.18	0.12 J
4-Ethyltoluene	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	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.19	0.17 U	0.073 J	0.17 U	0.045 J	0.055 J
4-Methyl-2-pentanone	0.20 U	0.20 U	0.40	0.20 U	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	0.30	0.14 U	0.22	0.24	0.09	0.14 U	0.12 J	0.14 U
Acetone	6.5	14	13	11 B	14 B	19 B	26	10	7.4	15	18	11	10	20	29	27	12	26	9.2	8.2	9.2	11
Benzene	0.55	0.19	0.60	0.44	1.3	0.29	0.31	0.42	0.39	0.20	0.49	0.48	0.80	0.23	0.70	0.53	2.4	0.7	0.3	0.4	0.5	0.23
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	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
Bromomethane	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	0.078 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	1.6 U	0.93 U	0.93 U	0.93 U	0.20	1.1 U	1.1 U	1.1 U	0.13	1.1 U	1.1 U	0.23	0.057 J	1.1 U	0.039 J	0.083 J
Carbon tetrachloride	0.43	**0.55 [a]**	0.44	0.46	**0.57 [a]**	**0.64 [a]**	0.52	0.46	0.48	0.44	0.37	**0.55 [a]**	0.42	**0.58 [a]**	0.47	0.45	0.45	0.43	0.42	0.33	0.31	0.37
Chlorobenzene	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	0.45	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	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	0.079 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	0.2	0.053 U	0.093 U	0.093 U	0.093 U
Chloroform	0.24 U	0.36	0.36	0.24 U	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	0.19	0.17 U	0.17 U	0.25	0.11	0.082 J	0.069 J	0.15 J
Chloromethane	1.4	1.0	1.1	0.95	0.92	1.1	1.4	1.3	1.2	1.4	1.2	1.1	1.4	1.5	1.1	1.2	1.3	1.9	1	0.88	0.95	1.2
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	0.098	0.059 U	0.052	0.042	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
cis-1,3-Dichloropropene	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
Cyclohexane	0.17 U	0.17 U	0.17 U	0.17 U	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	0.12 U	0.12 U	0.34	0.16	0.069 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	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
Dichlorodifluoromethane	1.6	2.4	1.6	1.9	3.1	1.8	1.9	2.9	2.0	2.9	2.8	2.7	1.7	3.4	1.9	2.5	1.5	2.1	2.1	1.9	1.4	2.6
Ethanol	7.1	18	36	5.9	10	7.7	14	24	41	67	23	8.4	2.9	20	21	6.1	20	38	160	9.4	17	29
Ethyl acetate	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.48	0.69	0.31	1.0	0.42	0.34	0.64	0.42	0.13 U	0.17	0.34	1.7	0.13 U	0.3	0.13 U
Ethylbenzene	0.22 U	0.22 U	0.43	0.22 U	0.45	0.22 U	0.22 U	0.15	0.22	0.71	0.23	0.16	0.11	0.18	0.29	0.15 U	0.56	0.2	0.18	0.088 J	0.18	0.13 J
Hexachlorobutadiene	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	0.37 U	0.37 U	0.37 U	0.21 U	0.37 U	0.37 U	0.37 U
Hexane	0.22	1.3	0.69	0.39	1.5	0.41	7.0 U	0.41	0.48	0.73	1.0	0.64	0.76	0.83	0.85	0.38	1.2	0.69	0.35 J	0.29 J	4.9 J	0.32 J
Isopropyl alcohol	4.9	1.0	3.2	1.1	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	3.4 U	0.85	1.7	8.1	3.4	0.52 J	3.1 J	4.7
m,p-Xylene	0.51	0.58	1.1	0.43 U	1.2	0.48	0.59	0.45	0.54	0.73	0.38	0.58	0.31	0.54	0.81	0.20	1.6	0.6	0.4	0.3	0.4	0.35

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

	Indoor Air - Center Small Retail Space																					
Parameter (ug/m^3)	IA-6-032610 3/26/2010	IA-6-070110 7/1/2010	IA-6-091610 9/16/2010	IA-6-120710 12/7/2010	IA-6-021711 2/17/2011	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	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
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	0.14 U	0.082 U	0.14 U	0.14 U	
Methylene chloride	0.70 U	4.5	0.64	0.94	3.0	1.0	1.7 U	1.5	1.8	1.5	2.2	1.6	1.1	1.3	1.1	0.71	0.64	0.83	0.64 J	0.28 J	0.49 J	0.41 J
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	0.11 U	0.11 U	0.11 U	0.14	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
n-Heptane	0.20 U	1.4	0.47	0.20 U	0.35	0.20 U	0.20	0.11	0.15	0.25	0.31	0.095	0.10	0.14	0.47	0.14 U	0.71	1.1	0.16	0.14 U	0.15	0.14 J
o-Xylene	0.22 U	0.22 U	0.42	0.22 U	0.40	0.22 U	0.22	0.17	0.13	0.29	0.12	0.18	0.13	0.21	0.32	0.15 U	0.64	0.24	0.14	0.085 J	0.18	0.13 J
Propylene (Propene)	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	0.81	1.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.21 U	0.24	0.29	0.21 U	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	0.22	0.15 U	0.16	0.15 U	0.077 J	0.15 U	0.036 J	0.093 J
Tetrachloroethene	0.34 U	0.34 U	0.34 U	0.34 U	1.6	0.34 U	0.58	0.68	0.15	0.57	2.6	0.24 U	0.12	0.24 U	0.24 U	0.24 U	0.24	0.32	0.49	0.12 J	0.72	0.21 J
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	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	0.10 U	0.10 U	0.10 U	0.17	0.046 J	0.1 U	0.1 U	0.1 U
Toluene	1.6	1.7	2.6	0.40	2.9	0.93	1.2	1.2	1.4	1.1	1.5	0.56	0.65	1.1	2.6	0.49	3.4	1.3	0.72	0.5	0.76	0.77
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	0.12 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
trans-1,3-Dichloropropene	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
Trichloroethene	0.27 U	0.27 U	0.30	0.27 U	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	0.19 U	0.19 U	0.21	0.19 U	0.12	0.19 U	0.075 J	0.19 U
Trichlorofluoromethane	1.3	1.5	3.1	1.1	1.6	1.1	1.7	1.4	1.0	1.6	1.7	2.0	1.3	2.1	1.7	1.5	1.7	1.3	1.3	1.3	1	1.5
Trichlorotrifluoroethane	0.55	0.55	0.42	0.52	0.69	0.67	0.56	0.68	0.44	0.57	0.62	0.61	0.65	1.0	0.66	0.58	0.46	0.53	0.54	0.64	0.47 J	0.67 J
Vinyl acetate	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	2.5 U	2.5 U	2.5 U	1.4 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	0.077 U	0.038 U	0.077 U	0.090 U	0.090 U	0.33	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.084	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 - Western Small Retail Space																			
Parameter (ug/m^3)	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
1,1,1-Trichloroethane	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
1,1,1,2-Tetrachloroethane																		0.62 U		0.37 U	0.37 U
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	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
1,1-Dichloroethene	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
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	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
1,2-Dibromoethane (EDB)	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
1,2-Dichlorobenzene	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
1,2-Dichloroethane	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
1,2-Dichloropropane	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
1,2-Dichlorotetrafluoroethane	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	0.25 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
1,3-Butadiene	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
1,3-Dichlorobenzene	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
1,4-Dichlorobenzene	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
1,4-Dioxane																		0.18 U			
2-Butanone	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-Hexanone	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
4-Ethyltoluene	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
4-Methyl-2-pentanone	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
Acetone	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
Benzene	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
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	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
Bromomethane	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
Carbon disulfide	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
Carbon tetrachloride	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
Chlorobenzene	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
Chloroethane	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
Chloroform	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
Chloromethane	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
cis-1,2-Dichloroethene	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
cis-1,3-Dichloropropene	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
Cyclohexane	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
Dibromochloromethane	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
Dichlorodifluoromethane	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
Ethanol	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
Ethyl acetate	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
Ethylbenzene	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
Hexachlorobutadiene	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
Hexane	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
Isopropyl alcohol	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
m,p-Xylene	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

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 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
Methyl methacrylate															0.20 U	0.20 U	0.20 U	0.20 U	0.12 U	0.12 U	0.12 U
Methylene chloride	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
Methyl-t-butyl ether	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
n-Heptane	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
o-Xylene	0.24	0.31	0.39	0.97	0.24	0.22 U	0.16 U	0.22 U	0.25	0.31	0.60	0.28	0.43	0.43	0.22 U	0.22 U	0.69	0.41	0.30	0.17	0.20
Propylene (Propene)	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
Styrene	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
Tetrachloroethene	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	0.34 U	0.34 U	0.36	0.34 U	1.7	0.34 U	0.62	0.66	0.14	0.15
Tetrahydrofuran	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
Toluene	1.5	1.6	2.7	7.5	1.5	0.76	0.48	0.61	2.3	4.0	0.57	7.2	8.4	3.5	0.48	1.6	6.6	3.7	1.2	0.48	1.4
trans-1,2-Dichloroethene	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
trans-1,3-Dichloropropene	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
Trichloroethene	**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	0.40	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
Trichlorofluoromethane	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
Trichlorotrifluoroethane	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
Vinyl acetate	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
Vinyl chloride	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

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-7-091312 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	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
1,1,1-Trichloroethane	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	0.055 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	0.42 U	0.44 U	0.44 U	0.44 U	0.25 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	0.23 U	0.24 U	0.24 U	0.24 U	0.069 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	0.18 U	0.19 U	0.19 U	0.19 U	0.11 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	0.14 U	0.04 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	0.13 U	0.14 U	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	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	0.15 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	0.46	0.17 U	0.10	0.58	0.40	0.70	0.25	0.38	0.31	0.37	0.052 J	0.33	0.21
1,2-Dibromoethane (EDB)	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	0.077 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	0.20 U	0.21 U	0.21 U	0.21 U	0.12 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	0.14 U	0.11	0.14 U	0.14 U	0.14 U	0.15	0.14 U	0.065 J	0.19
1,2-Dichloropropane	0.094	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.085	0.16 U	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane													
1,3,5-Trimethylbenzene	0.26	0.17 U	0.17 U	0.17 U	0.17 U	0.23	0.17 U	0.17 U	0.17 U	0.057 J	0.17 U	0.083 J	0.083 J
1,3-Butadiene	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.075 U	0.078 U	0.48	0.078 U	0.044 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	0.20 U	0.21 U	0.21 U	0.21 U	0.06 J	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	0.063	0.21 U	0.21 U	0.21 U	0.21 U	0.086	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.16 J	0.15 J
1,4-Dioxane													
2-Butanone	2.8	1.9	1.9	1.7	1.6	3.8	0.69	1.5	3	2.2 J	0.75 J	1.4 J	1.7 J
2-Hexanone	0.41	0.20	0.35	0.14 U	0.15	1.1	0.14 U	0.37	0.35	0.41	0.14 U	0.43	0.17
4-Ethyltoluene	0.16	0.17 U	0.17 U	0.17 U	0.17 U	0.20	0.17 U	0.17 U	0.17 U	0.065 J	0.17 U	0.09 J	0.069 J
4-Methyl-2-pentanone	0.29	0.18	0.14 U	0.21	0.20	0.44	0.14 U	0.14 U	0.34	0.18	0.14 U	0.18	0.15
Acetone	24	14	15	49	46	46	20	15	30	41	12	16	24
Benzene	0.49	0.58	0.87	0.32	0.43	1.8	0.54	1.9	0.57	0.36	0.4	0.57	0.27
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	0.18 U	0.052 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	0.23 U	0.24 U	0.24 U	0.24 U	0.067 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	0.35 U	0.36 U	0.36 U	0.36 U	0.21 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	0.13 U	0.14 U	0.14 U	0.14 U	0.056 J	0.14 U	0.14 U	0.14 U
Carbon disulfide	0.090	1.1 U	1.1 U	0.16	0.60	0.14	1.1 U	1.1 U	0.15	0.11 J	1.1 U	0.042 J	0.1 J
Carbon tetrachloride	0.38	0.51	0.39	**0.55 [a]**	0.46	0.45	0.49	0.42	0.45	0.46	0.33	0.34	0.36
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	0.16 U	0.046 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	0.089 U	0.093 U	0.093 U	0.093 U	0.053 U	0.093 U	0.093 U	0.093 U
Chloroform	0.20	0.17 U	0.082	0.21	0.47	0.17	0.24	0.17 U	0.18	0.12	0.096 J	0.079 J	0.19
Chloromethane	1.3	1.1	1.4	1.5	1.3	1.2	1.2	1.4	1.4	0.76	0.86	1	1.3
cis-1,2-Dichloroethene	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	0.04 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	0.15 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U
Cyclohexane	0.23	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.30	0.12 U	0.069 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	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	0.085 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	2.9	2.6	1.7	3.1	2.1	1.5	2.7	1.5	2.1	2.2	1.8	1.3	1.9
Ethanol	60	52	11	45	21	40	25	50	79	96	39	110	110
Ethyl acetate	0.57	0.77	0.13 U	5.5	1.3	1.9	0.34	0.56	0.41	0.37	0.13 U	0.64	0.39
Ethylbenzene	0.45	0.19	0.14	0.36	0.48	0.62	0.15 U	0.43	0.35	0.2	0.085 J	0.58	0.19
Hexachlorobutadiene	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	0.21 U	0.37 U	0.37 U	0.37 U
Hexane	0.97	0.86	0.87	2.9	1.3	0.97	0.39	1.1	0.9	0.37 J	0.35 J	4.9 J	0.36 J
Isopropyl alcohol	22	3.3	3.4 U	3.4 U	3.4 U	6.0	40	1.9	11.0	2 U	1.4 J	30.0	11
m,p-Xylene	1.4	0.71	0.40	1.1	1.2	1.8	0.25	1.2	1.1	0.54	0.29 J	0.67	0.48

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-7-091312 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	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
Methyl methacrylate	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	0.082 U	0.14 U	0.14 U	
Methylene chloride	2.3	2.6	1.4	6.1	1.3	1.1	0.76	0.68	0.74	0.63 J	0.39 J	0.6 J	0.58 J
Methyl-t-butyl ether	0.11	0.13 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	0.13 U	0.13 U	0.072 U	0.13 U	0.13 U	0.063 J
n-Heptane	0.99	0.14 U	0.16	0.42	1.1	1.6	0.45	1.3	4.6	1.9	4.3	0.19	0.14 J
o-Xylene	0.56	0.24	0.15	0.40	0.44	0.85	0.15 U	0.44	0.39	0.19	0.088 J	0.26	0.19
Propylene (Propene)	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.3 U	2.4 U	2.4 U	1.5	1.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.89	0.15 U	0.081	0.29	2.6	0.37	0.15 U	0.17	0.29	0.24	0.15 U	0.096 J	0.29
Tetrachloroethene	1.7	0.24 U	0.15	0.24 U	**5.5**	0.22	0.24 U	0.40	0.34	0.13	0.13 J	0.23 J	0.25
Tetrahydrofuran	0.10 U	0.10 U	0.10 U	0.10 U	0.65	0.15	0.10 U	0.10 U	0.14	0.13	0.1 U	0.11	0.15
Toluene	2.4	0.99	1.0	3.8	4.7	7.8	1.1	2.8	2.2	1.3	0.72	1.1	1
trans-1,2-Dichloroethene	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	0.04 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	0.15 U	0.16 U	0.16 U	0.16 U	0.045 U	0.16 U	0.16 U	0.16 U
Trichloroethene	0.15	0.19 U	0.068	0.19 U	0.53	0.14	0.19 U	0.28	0.19 U	0.077	0.19 U	0.1 J	0.19 U
Trichlorofluoromethane	1.8	1.8	1.5	2.5	1.8	1.9	1.6	1.7	1.4	1.3	1.4	1.2	1.5
Trichlorotrifluoroethane	0.58	0.60	0.87	1.0	0.63	0.52	0.60	0.45	0.52	0.58	0.63	0.64 J	0.65 J
Vinyl acetate	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	1.4 U	2.5 U	2.5 U	2.5 U
Vinyl chloride	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.087 U	0.090 U	0.090 U	0.090 U	0.026 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 06/19/15
Checked by / Date: MAM 7/15/15

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

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***

** 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 07/10/15
Checked by/Date: KRM 07/10/15

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
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
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	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	0.19 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
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
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
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
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
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
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
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
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
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
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
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
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
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
1,4-Dioxane																			
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Methyl methacrylate																			
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

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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-1-021910 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	AA-1-091214 9/12/2014	AA-1-121914 12/19/2014	AA-01-032715 3/27/2015	AA-1-061115 6/11/2015
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	0.27 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	0.055 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	0.25 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	0.34 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	0.069 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	0.27 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	0.11 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	0.20 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	0.04 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	0.20 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	0.04 U	0.14 U	0.14 U	0.14 U
1,2,4-Trichlorobenzene	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	0.15 U	0.26 U	0.26 U	0.26 U
1,2,4-Trimethylbenzene	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	0.069 J	0.17 U	0.2	0.059 J
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	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	0.077 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	0.30 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	0.12 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	0.20 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	0.037 J	0.14 U	0.14 U	0.054 J
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	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	0.046 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																				
1,3,5-Trimethylbenzene	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	0.098 U	0.17 U	0.062 J	0.17 U
1,3-Butadiene	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	0.044 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	0.30 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	0.12 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	0.30 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	0.12 U	0.21 U	0.21 U	0.21 U
1,4-Dioxane										0.18 U																
2-Butanone	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	1.1 J	1.2 J	0.96 J	2.1 J
2-Hexanone	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	0.16	0.14 U	0.17	0.17
4-Ethyltoluene	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	0.098 U	0.17 U	0.079 J	0.17 U
4-Methyl-2-pentanone	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	0.036 J	0.14 U	0.092 J	0.14 U
Acetone	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	25	10	8.7	10
Benzene	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	0.2	0.6	0.7	0.41
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	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	0.052 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	0.34 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	0.067 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	0.52 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	0.21 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	0.19 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	0.078 U	0.14 U	0.14 U	0.14 U
Carbon disulfide	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	0.098 J	1.1 U	0.057 J	1.1 U
Carbon tetrachloride	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	0.45	0.36	0.34	0.36
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	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	0.046 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	0.13 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	0.053 U	0.093 U	0.093 U	0.093 U
Chloroform	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	0.08	0.082 J	0.065 J	0.11 J
Chloromethane	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	0.64	0.96	1.1	1.2
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	0.20 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	0.04 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	0.23 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	0.045 U	0.16 U	0.16 U	0.16 U
Cyclohexane	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	0.069 U	0.12 U	0.12 U	0.12 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	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	0.085 U	0.3 U	0.3 U	0.3 U
Dichlorodifluoromethane	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	2.2	2.1	1.4	2.3
Ethanol	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	2.9	2.7	2 J	4.8
Ethyl acetate	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	0.17	0.13 U	0.27	0.13 U
Ethylbenzene	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	0.047 J	0.046 J	0.19	0.1 J
Hexachlorobutadiene	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	0.21 U	0.37 U	0.37 U	0.37 U
Hexane	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	0.19 J	0.39 J	5.1	0.29 J
Isopropyl alcohol	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	0.61 J	3.4 U	0.65 J	0.44 J
m,p-Xylene	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	0.14 J	0.11 J	0.66	0.24 J
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	0.082 U	0.14 U	0.14 U	
Methylene chloride	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	0.54 J	0.47 J	0.44 J	0.47 J

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-1-021910 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	AA-1-091214 9/12/2014	AA-1-121914 12/19/2014	AA-01-032715 3/27/2015	AA-1-061115 6/11/2015
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	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	0.072 U	0.13 U	0.13 U	0.13 U
n-Heptane	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	0.054 J	0.14 U	0.19	0.14 U
o-Xylene	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	0.054 J	0.046 J	0.25	0.11 J
Propylene (Propene)	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	1.4 U	2.4 U	2.4 U	2.4 U
Styrene	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	0.085 U	0.15 U	0.15 U	0.15 U
Tetrachloroethene	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	0.07	0.09 J	0.22 J	0.29
Tetrahydrofuran	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	0.059 U	0.1 U	0.1 U	0.1 U
Toluene	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	0.33	0.35	1.3	0.51
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	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	0.04 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	0.23 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	0.045 U	0.16 U	0.064 J	0.16 U
Trichloroethene	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	0.052 J	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane	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	1.3	1.3	1.1	1.5
Trichlorotrifluoroethane	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	0.57	0.63	0.49 J	0.65 J
Vinyl acetate	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	1.4 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	0.13 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	0.026 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

	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	EW-COMBINED-052810 5/28/2010	EW-COMBINED-070110 7/1/2010
1,1,1-Trichloroethane	190000	91000	73000	32000	3500	19000	11000	8100	7900	6800	1500	2500	150	1200	1400	1700	2000
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	6.8 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	5.4 U	0.54 U
1,1-Dichloroethane	19000	7800	5300	4800	390	2200	1600	1900	1900	1700	280	370	31	310	200	270	290
1,1-Dichloroethene	7800	1800	1000	630	73	420	310	250	260	280	52	66	7.3	62	30	40	52
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	7.4 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	5.0 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	7.6 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	6.0 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	4.0 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	4.6 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	7.0 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	5.0 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	2.2 U	0.22 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	6.0 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	6.0 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	22	22
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	4.0 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	5.0 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	4.0 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	24	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	5.5	0.84
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	5.2 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	6.6 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	11 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	3.8 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	3.2 U	1.1
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	6.2 U	0.73
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	7.2	0.46 U
Chloroethane	3400	1700	1200	450	42	220	110	94	92	88	9.8	11	1.3	9.9	4.8	7.2	9.4
Chloroform	27	17	20	17	4.8 U	8.8	12	14	11	11	4.1	5.8	0.49	6.2	6.0	7.9	8.0
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	2.0 U	0.20 U
cis-1,2-Dichloroethene	14000	4700	6300	4200	300	1600	1600	1500	1300	1200	190	280	21	240	180	260	260
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	4.4 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	3.4 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	8.6 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	5.0 U	2.5
Ethanol	960	81	120	120	17	21	200	96	32	33	39	60	23	62	10	19 U	15
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	3.6 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	4.4 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	11 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	3.6 U	0.44
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	2.4 U	0.24 U
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	8.6 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	7.0 U	2.1

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

	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	EW-COMBINED-052810 5/28/2010	EW-COMBINED-070110 7/1/2010
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	3.6 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	4.0 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	4.4 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	18 U	1.8 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	4.2 U	0.42 U
Tetrachloroethene	140	60	430	540	47	110	110	260	67	72	4.6	200	4.8	45	450	1300	640
Tetrahydrofuran	77	77	150	180	66	110	1.5 U	96	85	67	15	32	28	43	34	54	65
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	3.8 U	0.41
trans-1,2-Dichloroethene	110	61	47	47	4.6	33	29	34	30	26	3.4	4.6	0.36	4.1	3.0	4.6	5.5
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	4.4 U	0.44 U
Trichloroethene	36000	17000	26000	13000	1400	6200	4000	3600	4000	4300	390	1400	58	460	1200	2000	1700
Trichlorofluoromethane	9900	2300	1800	1000	98	600	1800	1400	1500	1500	260	230	29	230	210	300	440
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	7.6 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	3.6 U	0.36 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	2.6 U	0.26 U

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

	Extraction Well - Large Retail Space																					
Parameter (ug/m^3)	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-Combined-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	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-1-030609 3/6/2009	EW-1-033109 3/31/2009
1,1,1-Trichloroethane	4700	280	2500	2400	340	1100	1800	2800	1800	610	850	1900	1500	780	770	1300	420	500	1200	59000	66000
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	1.2 U	1.2 U	2.5 U	1.2 U	1.2 U	1.2 U		
1,1,2,2-Tetrachloroethane	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	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	6.8 U	6.8 U
1,1,2-Trichloroethane	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	0.55 U	0.55 U	1.1 U	0.55 U	0.55 U	0.28 J	6.4	10
1,1-Dichloroethane	330	36	170	200	70	78	130	200	99	59	68	150	62	53	68	130	55	49	100	4100	4400
1,1-Dichloroethene	81	7.3	58	44	21	34	42	15	28	24	38	56	24	27	40	52	14	22	46	570	1200
1,2,4-Trichlorobenzene	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	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	7.4 U	7.4 U
1,2,4-Trimethylbenzene	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	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	5.0 U	5.0 U
1,2-Dibromoethane (EDB)	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	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	7.6 U	7.6 U
1,2-Dichlorobenzene	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	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	6.0 U	6.0 U
1,2-Dichloroethane	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	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	0.4 U	4.0 U	4.0 U
1,2-Dichloropropane	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	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	4.6 U
1,2-Dichlorotetrafluoroethane	0.70 U																			7.0 U	7.0 U
1,3,5-Trimethylbenzene	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	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	5.0 U	5.0 U
1,3-Butadiene	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	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	2.2 U	2.2 U
1,3-Dichlorobenzene	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	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	6.0 U	6.0 U
1,4-Dichlorobenzene	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	0.60 U	0.60 U	1.2 U	0.6 U	0.6 U	0.6 U	6.0 U	6.0 U
1,4-Dioxane				0.72 U																	
2-Butanone	10	4.5	4.5 B	24 U	1.3	120 U	110	16	2.9	22	5.3	7.6	0.97	2.5	5.1	3.3 J	1.4 J	1.2 J	1.2 J	3.5	8.9
2-Hexanone	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	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	4.0 U	4.0 U
4-Ethyltoluene	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	0.49 U	0.49 U	0.98 U	0.49 U	0.49 U	0.49 U	5.0 U	5.0 U
4-Methyl-2-pentanone	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	0.41 U	0.41 U	0.82 U	0.41 U	0.13 J	0.41 U	4.0 U	4.0 U
Acetone	6.6	11 B	6.3 B	19 U	6.6	22	19	14	10	75	12	11	6.6	15	9.8	19 U	6.2 J	6.1 J	9.5 U	35	16
Benzene	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	0.63	0.66	0.35 J	0.33	0.39	0.36	5.3	11
Benzyl chloride	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	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	5.2 U	5.2 U
Bromodichloromethane	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	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	6.6 U	6.6 U
Bromoform	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	1.0 U	1 U	2.1 U	1 U	1 U	1 U	11 U	11 U
Bromomethane	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	0.39 U	0.39 U	0.78 U	0.39 U	0.39 U	0.39 U	3.8 U	3.8 U
Carbon disulfide	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	3.1 U	0.40	0.52 J	0.33 J	0.24 J	0.37 J	3.2 U	3.2 U
Carbon tetrachloride	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	0.63 U	0.63 U	0.58 J	0.4 J	0.28 J	0.49 J	6.2 U	6.2 U
Chlorobenzene	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	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	4.6 U	4.6 U
Chloroethane	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	1.0	1.5	1.8	0.8	0.4	1.0	170	250
Chloroform	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	3.1	3.4	4.9	3.4	2.5	6.4	20	34
Chloromethane	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	0.41 U	0.41 U	0.83 U	0.41 U	0.41 U	0.41 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	360	28	120	160	38	47	75	150	66	30	24	93	12	25	30	57	25	21	52	2000	2200
cis-1,3-Dichloropropene	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	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	4.4 U	4.4 U
Cyclohexane	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	0.34 U	0.34 U	0.69 U	0.34 U	0.34 U	0.34 U	3.4 U	5.7
Dibromochloromethane	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	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	8.6 U	8.6 U
Dichlorodifluoromethane	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	2.4	2.1	2.5	2.7	1.8	2.9	5.0 U	170
Ethanol	1.9 U	8.2	17	15 U	9.2	75 U	7.2	12	19	320	34	30	11	38	41	15	12	5.2 J	5.1 J	33	40
Ethyl acetate	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	1.8	0.36 U	0.72 U	0.36 U	11	1.3	3.6 U	3.6 U
Ethylbenzene	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	0.43 U	0.43 U	0.87 U	0.43 U	0.43 U	0.43 U	4.4 U	4.4 U
Hexachlorobutadiene	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	1.1 U	1.1 U	2.1 U	1.1 U	1.1 U	1.1 U	22 U	22 U
Hexane	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	0.80	14 U	28 U	14 U	7.9 J	14 U	3.6 U	3.6 U
Isopropyl alcohol	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	1.6	1.6	2.7 J	9.8 U	9.8 U	3.8 J	28	2.4 U
m,p-Xylene	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	0.57	0.95	1.7 U	0.25 J	0.87 U	0.87 U	8.6 U	8.6 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	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U			
Methylene chloride	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	1.7	1.1	1.4 J	3.5 U	3.5 U	3.5 U	7.0 U	19

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

	Extraction Well - Large Retail Space																				
Parameter (ug/m^3)	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-Combined-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	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-1-030609 3/6/2009	EW-1-033109 3/31/2009
Methyl-t-butyl ether	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	0.36 U	0.36 U	0.72 U	0.36 U	0.2 J	0.2 J	3.6 U	3.6 U
n-Heptane	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	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	4.0 U	4.0 U
o-Xylene	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	0.43 U	0.43 U	0.87 U	0.43 U	0.43 U	0.43 U	4.4 U	4.4 U
Propylene (Propene)	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	6.9 U	6.9 U	14 U	6.9 U	1.6 J	6.9 U	1.8 U	1.8 U
Styrene	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	0.43 U	0.43 U	0.85 U	0.43 U	0.43 U	0.43 U	4.2 U	4.2 U
Tetrachloroethene	750	160	920	440	8.1	170	530	910	850	60	23	250	7.0	260	82	230	100	400	1400	600	1200
Tetrahydrofuran	31	11	11	21	0.27	8.3	3800	110	1.8	4.1	7.2	10	0.79	1.7	4.7	2.9	0.85	1.2	0.65	6.3	21
Toluene	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	1.1	1.8	0.75 U	0.43	0.2 J	0.15 J	3.8 U	3.8 U
trans-1,2-Dichloroethene	6.6	0.6	1.9	3.5	1.1	2.0 U	1.7	1.9	1.0	0.86	0.62	2.6	0.40 U	0.59	0.89	1.4	0.6	0.65	1.1	9.2	23
trans-1,3-Dichloropropene	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	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	4.4 U	4.4 U
Trichloroethene	3200	240	1800	1900	97	730	1500	2600	2000	380	280	1200	160	560	560	800	480	490	1300	31000	42000
Trichlorofluoromethane	410	71	200	610	200	150	260	100	230	130	140	410	200	98	160	360	200	80	170	520	540
Trichlorotrifluoroethane	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	0.77 U	0.77 U	0.86 J	0.89	0.54 J	0.89 J	7.6 U	7.6 U
Vinyl acetate	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	7.0 U	7.0 U	14 U	7 U	7 U	7 U	3.6 U	3.6 U
Vinyl chloride	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	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.7	4.8

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

	Extraction Well - Large Retail Space						Post Treatment - Large Retail Space							CT	Indoor Air - Large Retail Space					
Parameter (ug/m^3)	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	IACTIND 2003 (ug/m^3)	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
1,1,1-Trichloroethane	26000	30000	54000	72000	11000	14000	1.0	15	45	1.9	13000	0.56	450	500	10	0.56	1.1	0.99	0.35	1.8
1,1,1,2-Tetrachloroethane														1.1						
1,1,2,2-Tetrachloroethane	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	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1,2-Trichloroethane	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	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	5700	7000	1600	2300	690	1400	0.20 U	1.0 U	5.4	11000	490	370	610	430	0.71	0.20 U	0.20 U	0.20 U	0.27	0.32
1,1-Dichloroethene	330	640	340	560	97	210	0.20 U	1.0 U	0.40 U	6400	96	78	87	20	0.38	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	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	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	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	0.25 U	0.36	0.70	0.77	0.25 U	0.25 U
1,2-Dibromoethane (EDB)	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	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethane	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2-Dichloropropane	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	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	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	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,3-Butadiene	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	0.11 U	0.11 U	0.34	0.84	0.11 U	0.11 U
1,3-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dioxane														NA						
2-Butanone	12	11	36	10	36	6.4	10	6.3	9.4	5.5	330	1.9	2.0	500	20	3.1	5.8	3.4	2.6	2.2
2-Hexanone	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	0.20 U	0.20 U	0.60	0.42	0.20 U	0.23
4-Ethyltoluene	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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Methyl-2-pentanone	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	0.20 U	0.20 U	0.43	0.30	0.20 U	0.20 U
Acetone	9.6 U	9.6 U	53	24	26	12	1200	11	19	12	430	3.6	5.7	500	18	7.7	19	21	10	8.7
Benzene	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	1.0	0.68	1.9	3.0	0.69	0.87
Benzyl chloride	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	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Bromodichloromethane	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	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Bromoform	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	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Bromomethane	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	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Carbon disulfide	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	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	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	0.35	0.41	0.52	**0.55 [a]**	0.46	**0.59 [a]**
Chlorobenzene	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	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chloroethane	700	590	41	44	17	33	0.13 U	5100	1800	480	64	19	10	500	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.13 U
Chloroform	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	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	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	1.1	1.0	1.4	1.5	1.0	1.0
cis-1,2-Dichloroethene	6100	7600	610	1200	560	1300	0.27	1.0 U	3.9	5200	820	230	570	100	2.0	0.20 U	1.0	1.1	0.73	1.3
cis-1,3-Dichloropropene	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	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Cyclohexane	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	0.17 U	0.17 U	0.49	0.61	0.17 U	0.17 U
Dibromochloromethane	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	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	5.0 U	5.0 U	5.4	7.0	2.6	5.0 U	0.76	4.1	3.0	2.4	50 U	1.7	1.9	500	1.8	2.1	2.6	2.8	2.6	2.6
Ethanol	12	8.3	39	1.8 U	8.6	1.8 U	740	36	25	9.8	110	0.38 U	2.8	NA	5.7	8.3	14	20	9.8	7.5
Ethyl acetate	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	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.18 U
Ethylbenzene	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	0.26	0.28	0.66	0.85	0.23	0.22 U
Hexachlorobutadiene	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	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexane	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	0.92	0.74	1.2	1.6	1.0	0.51
Isopropyl alcohol	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	3.4	3.1	5.3	5.8	3.8	2.0
m,p-Xylene	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	0.76	0.87	2.1	2.8	0.80	0.43 U
Methyl methacrylate														NA						
Methylene chloride	7.0 U	17	7.0 U	13	19	12	20	76	17	3.0	810	0.70 U	0.72	17	2.3	**33**	2.3	1.8	4.4	1.1

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

	Extraction Well - Large Retail Space						Post Treatment - Large Retail Space							CT	Indoor Air - Large Retail Space					
Parameter (ug/m^3)	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	IACTIND 2003 (ug/m^3)	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
Methyl-t-butyl ether	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	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	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	0.23	0.20 U	0.59	0.75	0.20 U	0.20 U
o-Xylene	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	0.26	0.33	0.76	0.99	0.30	0.22 U
Propylene (Propene)	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	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.090 U
Styrene	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	0.21 U	0.21 U	0.21	0.28	0.21 U	0.21 U
Tetrachloroethene	2300	2500	73	310	31	170	0.72	1.7 U	1.1	0.68 U	68 U	0.52	1.9	5	**6.6 [a]**	0.57	4.2	3.2	2.6	4.9
Tetrahydrofuran	19	3.0 U	32	14	37	5.1	6.8	22	40	18	210	4.1	6.5	NA	12	1.2	1.3	0.48	0.32	0.15 U
Toluene	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	1.7	1.4	4.0	5.7	2.3	0.93
trans-1,2-Dichloroethene	69	180	4.0 U	8.8	2.5	8.0	0.20 U	1.0 U	0.40 U	28	40 U	7.7	15	200	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	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	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	25000	25000	8600	19000	2700	5500	2.0	11	16	2.7	54 U	1.0	1.0	1	**4.2**	0.46	**1.6**	**1.4**	0.65	**1.5**
Trichlorofluoromethane	1300	1800	430	840	240	370	0.71	1.4 U	23	6700	84	180	210	500	2.1	1.4	1.7	3.1	1.6	1.7
Trichlorotrifluoroethane	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	0.65	0.64	0.47	0.46	0.67	0.48
Vinyl acetate	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	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U
Vinyl chloride	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	0.26	0.13 U	0.22	0.21	0.13 U	0.19

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-1-033109 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	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
1,1,1-Trichloroethane	1.5	1.4	2.0	0.27 U	0.27 U	0.27 U	0.27 U	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
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	0.24 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
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	0.19 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
1,1-Dichloroethane	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 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
1,1-Dichloroethene	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 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
1,2,4-Trichlorobenzene	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	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
1,2,4-Trimethylbenzene	0.25 U	0.18 U	0.48	0.29	0.35	0.28	0.51	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
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	0.27 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
1,2-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 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
1,2-Dichloroethane	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 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
1,2-Dichloropropane	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 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
1,2-Dichlorotetrafluoroethane	0.35 U	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 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	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	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
1,3-Butadiene	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	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
1,3-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 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
1,4-Dichlorobenzene	0.30 U	0.21 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 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
1,4-Dioxane																					
2-Butanone	1.3	1.2	4.4	2.0	2.6	2.7	1.3	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
2-Hexanone	0.20 U	0.14 U	0.48	0.43	0.52	0.73	0.31	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
4-Ethyltoluene	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	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
4-Methyl-2-pentanone	0.20 U	0.14 U	0.52	0.21	0.35	0.32	0.20 U	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
Acetone	14	12	310	11	18	13	10	13	12	2.0	19	7.3	8.5	7.0	6.5	18	18	11	12 B	15 B	11 B
Benzene	0.71	0.56	0.78	0.49	0.47	0.39	0.48	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
Benzyl chloride	0.26 U	0.19 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
Bromodichloromethane	0.33 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	0.34 U	0.34 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	0.36 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
Bromomethane	0.19 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
Carbon disulfide	0.16 U	0.12 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	0.33	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.53	0.31	0.43	0.48	0.38	0.42	0.43	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
Chlorobenzene	0.23 U	0.17 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
Chloroethane	0.13 U	0.10 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
Chloroform	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	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
Chloromethane	1.2	1.1	1.3	1.1	1.1	0.98	0.95	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
cis-1,2-Dichloroethene	0.50	0.60	1.3	0.20 U	0.20 U	0.83	0.44	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
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	0.16 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
Cyclohexane	0.17 U	0.12 U	0.34	0.18 U	0.17 U	0.17 U	0.17 U	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
Dibromochloromethane	0.43 U	0.31 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
Dichlorodifluoromethane	3.1	2.0	8.3	2.4	2.0	2.3	2.1	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
Ethanol	18	5.0	39	6.2	7.0	6.5	8.8	10	8.4	7.0	29	19	43	4.6	4.4	6.0	6.5	9.0	2.7	9.0	2.8
Ethyl acetate	0.18 U	0.26 U	0.37 U	0.32	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
Ethylbenzene	0.22 U	0.16 U	0.94	0.23	0.23	0.22 U	0.28	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
Hexachlorobutadiene	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	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
Hexane	0.53	0.65	1.7	0.99	1.3	0.41	0.77	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
Isopropyl alcohol	9.1	0.18 U	240	5.2	5.2	0.25 U	2.7	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
m,p-Xylene	0.63	0.31 U	2.5	0.79	0.91	0.73	1.0	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
Methyl methacrylate																			0.20 U	0.20 U	0.20 U
Methylene chloride	6.7	3.5	4.8	1.6	3.6	0.70 U	0.70 U	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

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-1-033109 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	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
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	0.13 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
n-Heptane	0.20 U	0.14 U	0.67	0.20 U	0.20 U	0.20 U	0.26	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
o-Xylene	0.22 U	0.16 U	0.70	0.31	0.40	0.28	0.40	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
Propylene (Propene)	0.090 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 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	0.87 U	0.87 U	0.35 U	0.86 U	0.86 U	0.86 U
Styrene	0.21 U	0.15 U	0.24	0.21 U	0.21 U	0.21 U	0.21 U	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
Tetrachloroethene	1.5	1.9	**6.1 [a]**	0.34 U	0.34 U	2.0	1.1	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
Tetrahydrofuran	0.15 U	0.23	0.40	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	0.22	0.15 U	0.15 U	0.15 U	0.24	0.16	0.15 U	0.15 U	0.15 U
Toluene	1.7	0.72	5.7	1.3	1.1	0.78	1.2	2.8	2.1	0.19 U	0.82	0.69	0.58	0.80	1.3	0.91	0.99	2.5	0.44	3.0	0.58
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	0.14 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
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	0.16 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
Trichloroethene	0.57	0.74	**1.6**	0.27 U	0.27 U	**1.1**	0.56	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
Trichlorofluoromethane	1.2	1.2	1.5	1.4	1.3	1.2	1.2	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
Trichlorotrifluoroethane	0.59	0.54	1.7	0.48	0.44	0.45	0.51	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
Vinyl acetate	0.18 U	0.50 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	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
Vinyl chloride	0.13 U	0.10 U	0.16	0.13 U	0.13 U	0.17	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	0.14	0.13 U	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 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-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
1,1,1-Trichloroethane	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	9.9	0.63	1.1	1.1	0.44	1.4	2.1	0.27 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								
1,1,2,2-Tetrachloroethane	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	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U
1,1,2-Trichloroethane	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	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U
1,1-Dichloroethane	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	0.72	0.20 U	0.20 U	0.20 U	0.32	0.14 U	0.20 U	0.20 U
1,1-Dichloroethene	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	0.41	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U
1,2,4-Trichlorobenzene	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	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	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	0.25 U	0.37	0.70	0.65	0.30	0.18 U	0.25 U	0.29
1,2-Dibromoethane (EDB)	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	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U
1,2-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U
1,2-Dichloroethane	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U
1,2-Dichloropropane	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	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 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
1,3,5-Trimethylbenzene	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	0.25 U	0.25 U	0.25	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U
1,3-Butadiene	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	0.11 U	0.11 U	0.30	0.66	0.11 U	0.08 U	0.11 U	0.23 U
1,3-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U
1,4-Dichlorobenzene	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	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.21 U	0.30 U	0.30 U
1,4-Dioxane	0.18 U																							
2-Butanone	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	21	4.1	4.6	3.0	2.9	0.95	1.6	1.1
2-Hexanone	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	0.20 U	0.20 U	0.35	0.26	0.20 U	0.14 U	0.20 U	0.25
4-Ethyltoluene	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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U
4-Methyl-2-pentanone	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	0.20 U	0.20 U	0.35	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U
Acetone	18	8.0	6.0	12	16	7.0	5.0	21	35	19	13	23	13	9.3	12	7.7	17	9.6	14	18	9.7	13	39	6.2
Benzene	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	1.0	0.67	1.8	3.0	0.77	0.58	0.44	0.41
Benzyl chloride	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	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U
Bromodichloromethane	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	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U
Bromoform	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	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U
Bromomethane	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	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U
Carbon disulfide	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	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U
Carbon tetrachloride	**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	0.33	0.41	**0.55 [a]**	**0.57 [a]**	0.48	0.41	0.41	0.44
Chlorobenzene	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	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U
Chloroethane	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	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.10 U	0.13 U	0.13 U
Chloroform	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	0.24 U	0.24 U	0.24 U	0.24 U	0.25	0.17 U	0.24 U	0.24 U
Chloromethane	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	1.1	1.0	1.3	1.3	1.0	1.1	1.2	0.91
cis-1,2-Dichloroethene	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	2.1	0.24	1.1	1.1	0.95	0.59	1.6	0.20 U
cis-1,3-Dichloropropene	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	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U
Cyclohexane	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	0.17 U	0.17 U	0.44	0.61	0.17 U	0.12 U	0.22	0.17 U
Dibromochloromethane	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	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U
Dichlorodifluoromethane	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	1.8	2.2	2.6	2.9	2.7	2.1	2.9	2.0
Ethanol	6.4	2.2	3.2	4.4	8.5	3.1	2.0	26	23	12	22	80	34	29	9.1	11	5.5	8.8	12	17	7.9	4.9	7.5	4.8
Ethyl acetate	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	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.26 U	0.37 U	0.18 U
Ethylbenzene	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	0.26	0.28	0.65	0.79	0.30	0.18	0.22 U	0.22 U
Hexachlorobutadiene	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	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U
Hexane	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	0.88	0.57	1.3	1.6	0.69	0.72	0.74	0.41
Isopropyl alcohol	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	3.7	3.1	4.5	4.5	4.7	5.6	28	340
m,p-Xylene	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	0.76	0.88	2.0	2.6	0.93	0.61	0.63	0.71
Methyl methacrylate	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									
Methylene chloride	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	2.0	**30**	4.0	1.6	1.8	4.0	4.2	0.70 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 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-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
Methyl-t-butyl ether	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	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U
n-Heptane	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	0.23	0.20 U	0.58	0.73	0.22	0.15	0.20 U	0.20 U
o-Xylene	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	0.30	0.34	0.76	0.89	0.34	0.22	0.22	0.27
Propylene (Propene)	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	0.18 U	0.18 U	0.090 U	0.090 U	0.18 U	0.13 U	0.18 U	0.35 U
Styrene	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	0.21 U	0.21 U	0.21 U	0.23	0.21 U	0.15 U	0.21 U	0.21 U
Tetrachloroethene	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	**7.5 [a]**	0.64	4.2	3.2	3.3	2.2	**7.6 [a]**	0.34 U
Tetrahydrofuran	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	12	1.2	1.2	0.49	0.41	0.21	0.28	0.15 U
Toluene	0.93	1.6	0.30	0.64	2.8	0.47	0.49	1.0	4.2	0.62	3.2	1.9	2.7	0.58	0.63	0.62	1.7	1.3	4.0	5.5	2.3	1.0	1.2	1.1
trans-1,2-Dichloroethene	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	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	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U
Trichloroethene	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	**4.4**	0.56	**1.6**	**1.4**	0.91	0.77	**1.9**	0.27 U
Trichlorofluoromethane	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	2.0	1.2	1.7	2.8	1.6	1.3	1.3	1.2
Trichlorotrifluoroethane	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	0.69	0.58	0.49	0.46	0.64	0.56	0.74	0.50
Vinyl acetate	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	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.50 U	0.71 U	0.71 U
Vinyl chloride	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	0.27	0.13 U	0.18	0.20	0.13 U	0.10 U	0.18	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-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
1,1,1-Trichloroethane	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
1,1,1,2-Tetrachloroethane																0.62 U		0.37 U	0.37 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	0.34 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
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	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
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	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
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	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
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	0.75 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
1,2,4-Trimethylbenzene	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
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	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
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	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
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	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
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	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
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	0.35 U	0.35 U	0.35 U								
1,3,5-Trimethylbenzene	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
1,3-Butadiene	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
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	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
1,4-Dichlorobenzene	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
1,4-Dioxane																0.18 U				
2-Butanone	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
2-Hexanone	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
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	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
4-Methyl-2-pentanone	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
Acetone	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
Benzene	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
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	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
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	0.33 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
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	0.51 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
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	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
Carbon disulfide	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
Carbon tetrachloride	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
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	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
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	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
Chloroform	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
Chloromethane	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
cis-1,2-Dichloroethene	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
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	0.22 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
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	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
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	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
Dichlorodifluoromethane	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
Ethanol	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
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	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
Ethylbenzene	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
Hexachlorobutadiene	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
Hexane	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
Isopropyl alcohol	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
m,p-Xylene	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
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
Methylene chloride	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

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-2-092409 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
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	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
n-Heptane	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
o-Xylene	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
Propylene (Propene)	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
Styrene	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
Tetrachloroethene	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
Tetrahydrofuran	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
Toluene	1.1	1.2	1.5	2.4	0.93	0.64	0.19 U	0.80	1.3	0.91	1.3	2.2	0.41	2.9	0.55	0.99	1.6	0.24	0.90	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	0.20 U	0.20 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
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	0.22 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
Trichloroethene	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
Trichlorofluoromethane	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
Trichlorotrifluoroethane	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
Vinyl acetate	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
Vinyl chloride	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

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-2-010313 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-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
1,1,1-Trichloroethane	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	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
1,1,1,2-Tetrachloroethane	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													
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	0.069 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
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	0.11 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
1,1-Dichloroethane	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.04 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
1,1-Dichloroethene	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	0.35	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
1,2,4-Trichlorobenzene	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	0.37 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
1,2,4-Trimethylbenzene	0.98	0.13	0.43	0.20	0.17 U	0.57	0.27	0.2	0.17 U	0.25	0.23	0.25 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
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	0.077 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
1,2-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 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
1,2-Dichloroethane	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	0.20 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
1,2-Dichloropropane	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	0.23 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
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
1,3,5-Trimethylbenzene	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	0.25 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
1,3-Butadiene	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	0.11 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
1,3-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 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
1,4-Dichlorobenzene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.12 U	0.21 U	0.063 J	0.097 J	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
1,4-Dioxane																								
2-Butanone	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	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
2-Hexanone	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	0.20 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
4-Ethyltoluene	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	0.25 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
4-Methyl-2-pentanone	3.6	0.14 U	0.54	0.46	0.18	0.57	1.1	1.3	0.14 U	0.84	0.9	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
Acetone	19	46	32	22	32	32	29	37	9.7	40	29	18	12	17	24	9.7	7.5	50	11	19	6.7	11	14	21
Benzene	0.65	0.91	0.56	0.32	0.66	2.0	0.62	0.30	0.36	0.67	0.39	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
Benzyl chloride	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	0.26 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
Bromodichloromethane	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	0.33 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
Bromoform	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	0.51 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
Bromomethane	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	0.19 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
Carbon disulfide	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	0.16 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
Carbon tetrachloride	**0.56 [a]**	0.45	**0.58**	0.45	0.46	0.41	0.42	0.43	0.37	0.36	0.35	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
Chlorobenzene	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	0.23 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
Chloroethane	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	0.13 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
Chloroform	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 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**
Chloromethane	1.0	2.7	1.7	0.98	1.1	1.3	1.2	0.71	0.8	1.4	1.3	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
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.04 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
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	0.045 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
Cyclohexane	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	0.17 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
Dibromochloromethane	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	0.43 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
Dichlorodifluoromethane	2.6	1.7	3.3	1.8	2.6	1.5	2	2.1	1.8	1.4	2.4	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
Ethanol	8.1	380	66	46	89	130	240	140	27	150	220	5.5	9.2	13	18	7.9	4.2	9.0	6.2	7.5	4.5	5.0	13	40
Ethyl acetate	0.59	2	0.39	0.28	13	0.36	0.25	0.35	0.17	0.45	0.49	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
Ethylbenzene	4.1	0.25	0.39	0.17	0.15 U	0.56	0.27	0.14	0.076 J	0.2	0.15	0.25	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
Hexachlorobutadiene	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	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
Hexane	15	2.3	1.6	0.65	4.9	1.2	0.74	0.56 J	0.29 J	5	0.44 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
Isopropyl alcohol	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	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
m,p-Xylene	17	0.92	1.4	0.48	0.25	1.6	0.88	0.44	0.31	0.61	0.45	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
Methyl methacrylate	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														
Methylene chloride	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	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

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-2-010313 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-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
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	0.072 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
n-Heptane	3.1	0.33	0.41	0.2	0.14 U	0.64	0.39	0.18	0.14 U	0.21	0.2	0.22	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
o-Xylene	5.1	0.33	0.52	0.2	0.15 U	0.66	0.34	0.17	0.088 J	0.25	0.19	0.28	0.33	0.79	0.86	0.23	0.22	0.24	0.26	0.45	0.27	0.34	0.44	0.26
Propylene (Propene)	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	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
Styrene	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	0.21 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
Tetrachloroethene	0.24	0.18	0.64	0.25	0.24 U	0.28	0.34	0.13	0.32	0.65	0.4	**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
Tetrahydrofuran	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	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
Toluene	5.6	1.5	2.8	1.3	1.0	3.2	1.9	1.6	0.6	1.4	1.3	1.7	1.5	4.7	5.8	2.1	1.0	1.2	1.2	1.1	0.73	1.1	2.5	0.78
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	0.04 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
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	0.045 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
Trichloroethene	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	**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
Trichlorofluoromethane	2.7	1.3	2.0	1.3	1.6	1.2	1.3	1.3	1.4	1.3	1.5	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
Trichlorotrifluoroethane	0.56	0.70	1.7	0.60	0.57	0.46	0.54	0.56	0.63	0.48 J	0.62 J	0.60	0.58	0.49	0.44	0.69	0.53	0.74	0.51	0.46	0.49	0.47	0.49	0.52
Vinyl acetate	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	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
Vinyl chloride	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	0.23	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

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-3-021210 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
1,1,1-Trichloroethane	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
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	0.46	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	0.34 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
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	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
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	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
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	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
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	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
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	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
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	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
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	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
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	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
1,2-Dichlorotetrafluoroethane	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	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
1,3-Butadiene	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
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	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
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	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
1,4-Dioxane											0.18 U									
2-Butanone	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
2-Hexanone	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
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	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
4-Methyl-2-pentanone	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
Acetone	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
Benzene	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
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	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
Bromodichloromethane	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
Bromoform	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
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	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
Carbon disulfide	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
Carbon tetrachloride	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
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	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
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	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
Chloroform	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
Chloromethane	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
cis-1,2-Dichloroethene	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
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	0.23 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
Cyclohexane	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
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	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
Dichlorodifluoromethane	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
Ethanol	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
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	0.18 U	0.11 U	0.73	0.37	0.51	0.68	0.44	0.28	0.34	2.6
Ethylbenzene	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
Hexachlorobutadiene	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
Hexane	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
Isopropyl alcohol	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
m,p-Xylene	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
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	0.18	0.14 U
Methylene chloride	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

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-3-021210 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
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	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
n-Heptane	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
o-Xylene	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
Propylene (Propene)	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
Styrene	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
Tetrachloroethene	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
Tetrahydrofuran	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
Toluene	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	0.90	4.6	0.66
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	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
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	0.23 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
Trichloroethene	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
Trichlorofluoromethane	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
Trichlorotrifluoroethane	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
Vinyl acetate	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
Vinyl chloride	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

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-3-030714 03/07/14	IA-3-061314 6/13/2014	IA-3-091214 9/12/2014	IA-3-121914 12/19/2014	IA-3-032715 3/27/2015	IA-3-061115 6/11/2015	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	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
1,1,1-Trichloroethane	0.19 U	0.19 U	0.19	0.16 J	0.05 J	0.19 U	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	0.27 U	0.76	0.29	0.89	0.27 U	1.1	0.28
1,1,2,2-Tetrachloroethane	0.44 U	0.44 U	0.25 U	0.44 U	0.44 U	0.44 U																		
1,1,2-Trichloroethane	0.24 U	0.24 U	0.069 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
1,1-Dichloroethane	0.19 U	0.19 U	0.11 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
1,1-Dichloroethene	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	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	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	0.14 U	0.14 U	0.04 U	0.14 U	0.14 U	0.14 U	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	0.26 U	0.26 U	0.15 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
1,2-Dibromoethane (EDB)	0.53	0.23	0.32	0.12 J	0.12 J	0.13 J	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	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.34
1,2-Dichlorobenzene	0.27 U	0.27 U	0.077 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
1,2-Dichloroethane	0.21 U	0.21 U	0.12 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
1,2-Dichloropropane	0.14 U	0.14 U	0.032 J	0.14 U	0.14 U	0.057 J	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
1,2-Dichlorotetrafluoroethane	0.16 U	0.16 U	0.046 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
1,3,5-Trimethylbenzene							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
1,3-Butadiene	0.17 U	0.17 U	0.069 J	0.17 U	0.038 J	0.079 J	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
1,3-Dichlorobenzene	0.55	0.078 U	0.044 U	0.078 U	0.045 J	0.078 U	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	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.11 U
1,4-Dichlorobenzene	0.21 U	0.21 U	0.12 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
1,4-Dioxane	0.21 U	0.21 U	0.12 U	0.068 J	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
2-Butanone	1.1	1.5	2.1 J	1.1 J	1.4 J	1.5 J	21	4.4	6.0	3.2	2.5	1.1	1.6	1.5	2.0	1.3	1.2	0.30 U	0.69	1.2	0.50	1.6	1.5	2.2
2-Hexanone	0.14 U	0.14 U	0.21	0.14 U	0.27	0.14	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39	0.54
4-Ethyltoluene	0.18	0.17 U	0.051 J	0.059 J	0.086 J	0.045 J	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
4-Methyl-2-pentanone	0.17	0.35	0.26	0.27	0.15	0.13 J	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Acetone	11	15	42	29	11	10	17	10	15	20	7.8	7.9	20	9.3	16	9.3	10	2.3	4.9	5.9	2.5	6.9	8.7	15
Benzene	2.4	0.41	0.29	0.5	0.5	0.28	1.1	0.68	1.8	3.0	0.76	0.59	0.44	0.40	0.43	0.37	0.48	0.16 U	0.88	0.66	0.54	0.57	0.64	0.48
Benzyl chloride	0.18 U	0.18 U	0.052 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
Bromodichloromethane	0.24 U	0.24 U	0.067 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
Bromoform	0.36 U	0.36 U	0.21 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
Bromomethane	0.14 U	0.16	0.099	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
Carbon disulfide	1.1 U	0.15	0.16 J	0.24 J	1.1 U	0.092 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	0.31
Carbon tetrachloride	0.45	0.44	0.42	0.34	0.36	0.36	0.40	0.43	0.50	**0.58 [a]**	0.46	0.22 U	0.45	0.41	0.40	0.46	0.40	0.31 U	0.43	0.31 U	0.42	0.43	0.47	0.52
Chlorobenzene	0.16 U	0.16 U	0.046 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
Chloroethane	0.093 U	0.093 U	0.053 U	0.093 U	0.093 U	0.093 U	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	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Chloroform	0.17 U	0.24	0.28	0.4	0.065 J	0.14 J	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	0.24 U	0.46	0.39	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.3	1.2	0.7	0.9	1.0	1.7	1.2	0.99	1.4	1.3	1.0	1.1	1.2	0.90	1.1	1.0	1.0	1.3	1.3	1.3	1.2	1.1	0.77	1.2
cis-1,2-Dichloroethene	0.14 U	0.14 U	0.04 U	0.46	0.14 U	0.14 U	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	0.20 U	0.20 U	0.20 U	0.59	0.20 U	1.3	0.20 U
cis-1,3-Dichloropropene	0.16 U	0.16 U	0.045 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
Cyclohexane	0.34	0.12 U	0.069 U	0.12 U	0.12 U	0.12 U	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	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	0.3 U	0.085 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
Dichlorodifluoromethane	1.5	2.1	2.2	1.8	1.4	2.3	1.9	2.2	2.5	2.8	2.6	2.1	2.4	2.1	2.0	2.2	2.2	2.4	2.5	2.6	3.0	1.7	2.1	2.5
Ethanol	24	64	41	580	8.7	16	5.3	8.9	12	18	8.0	5.2	5.5	6.0	6.5	4.9	5.6	7.7	34	17	31	3.9	4.9	6.1
Ethyl acetate	2.5	0.13 U	0.25	0.47	0.27	0.13 U	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	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	0.55	0.22	0.17	0.14 J	0.13 J	0.12 J	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	0.22 U	0.26	0.22 U	0.22 U	0.22 U	0.25	0.25
Hexachlorobutadiene	0.37 U	0.37 U	0.21 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
Hexane	2.1	0.44	0.43 J	0.41 J	5.1	0.45 J	0.90	0.66	1.2	1.7	0.66	0.43	0.34	0.42	2.2	0.49	0.93	0.18 U	0.37	1.3	0.49	0.19	1.3	0.55
Isopropyl alcohol	2.1	5.2	4.8	7.7	1.9 J	0.87 J	3.5	3.3	4.7	4.8	3.9	0.18 U	13	5.6	5.2	0.25 U	0.25 U	0.96	0.25 U	0.25 U	1.9	0.66	3.4	4.4
m,p-Xylene	1.6	0.84	0.62	0.58	0.37	0.39	0.76	0.89	2.1	2.6	0.89	0.58	0.49	0.61	0.93	0.69	1.0	0.43 U	0.81	0.43 U	0.43 U	0.49	0.80	0.98
Methyl methacrylate	0.14 U	0.14 U	0.16	0.14 U	0.14 U																			
Methylene chloride	2.2	0.77	0.58 J	0.29 J	2.1	0.54 J	2.3	**29**	1.7	2.5	1.3	1.9	2.2	0.70 U	9.7	0.70 U	0.70 U	1.5	0.70 U	1.9	0.71	0.70 U	0.70 U	0.35 U

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

	Indoor Air - Large Retail Space																							
Parameter (ug/m^3)	IA-3-030714 03/07/14	IA-3-061314 6/13/2014	IA-3-091214 9/12/2014	IA-3-121914 12/19/2014	IA-3-032715 3/27/2015	IA-3-061115 6/11/2015	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	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
Methyl-t-butyl ether	0.13 U	0.13 U	0.072 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
n-Heptane	0.65	0.43	0.52	0.14 U	0.13 J	0.19	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	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
o-Xylene	0.62	0.30	0.22	0.18	0.14 J	0.14 J	0.27	0.33	0.78	0.87	0.33	0.22	0.22 U	0.22 U	0.42	0.28	0.4	0.22 U	0.31	0.22 U	0.22 U	0.22 U	0.30	0.44
Propylene (Propene)	2.4 U	2.4 U	1.8	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
Styrene	0.18	0.16	0.15	0.12 J	0.15 U	0.033 J	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	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22
Tetrachloroethene	0.24 U	0.30	0.12	1.90	0.24 U	0.26	**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	0.34 U	0.34 U	0.34 U	1.4	0.34 U	4.4	0.44
Tetrahydrofuran	0.10 U	0.13	0.16	0.1 U	0.1 U	0.1 U	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	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19
Toluene	3.4	1.8	2.5	1.3	0.63	0.77	1.8	1.3	4.3	5.8	2.3	1.0	1.0	1.1	1.3	0.76	1.2	0.19 U	0.79	0.63	0.47	0.83	1.4	0.98
trans-1,2-Dichloroethene	0.14 U	0.14 U	0.04 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	1.1	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	0.045 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
Trichloroethene	0.26	0.19 U	0.075	0.64	0.072 J	0.19 U	**4.7**	0.48	**1.7**	**1.5**	0.88	0.78	**2.0**	0.27 U	0.27 U	**1.1**	0.57	0.27 U	0.27 U	0.27 U	0.40	0.27 U	**1.4**	0.27 U
Trichlorofluoromethane	1.7	1.4	1.3	1.3	1	1.7	2.0	1.3	1.6	3.0	1.7	1.3	1.3	1.2	1.5	1.2	1.2	0.93	1.3	1.4	1.6	1.5	1.3	1.3
Trichlorotrifluoroethane	0.51	0.59	0.57	0.63	0.47 J	0.69 J	0.72	0.59	0.51	0.45	0.57	0.54	0.61	0.49	0.48	0.47	0.50	0.38 U	0.55	0.58	0.55	1.3	0.48	0.51
Vinyl acetate	2.5 U	2.5 U	1.4 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
Vinyl chloride	0.090 U	0.09 U	0.026 U	0.09 U	0.09 U	0.09 U	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	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	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-4-070110 7/1/2010	IA-4-091610 9/16/2010	IA-4-120710 12/7/2010	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	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
1,1,1-Trichloroethane	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	0.055 U	0.28	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
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	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	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	0.12 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
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	0.41	0.44	0.25 U	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	0.17 U	0.56	0.26	0.17	0.14 J	0.25	0.2
1,2-Dibromoethane (EDB)	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
1,2-Dichlorobenzene	0.30 U	0.30 U	0.30 U	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	0.21 U	0.21 U	0.21 U	0.12 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	0.063	0.061 U	0.12 U	0.14 U	0.16	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	0.051 J
1,2-Dichloropropane	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	0.16 U	0.16 U
1,2-Dichlorotetrafluoroethane	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	0.15 U	0.15 U	0.080	0.12	0.27	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.098 U	0.17 U	0.066 J	0.066 J
1,3-Butadiene	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	0.47	0.11	0.044 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	0.18 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
1,4-Dichlorobenzene	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	0.08 J	0.063 J	0.12 J
1,4-Dioxane						0.18 U															
2-Butanone	4.8	2.4	0.96	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	1.2	1.1	2.9	4.6	1.1 J	1.9 J	1.9 J
2-Hexanone	1.0	0.59	0.20 U	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	0.14 U	0.15	0.36	0.2	0.14 U	0.25	0.14 U
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.15 U	0.15 U	0.068	0.12	0.22	0.17 U	0.17 U	0.17 U	0.17 U	0.18	0.17 U	0.098 U	0.055 J	0.069 J	0.041 J
4-Methyl-2-pentanone	0.43	0.45	0.20 U	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	0.16	0.48	1.3	1	0.34	0.89	0.97
Acetone	31	19	13 B	12 B	12 B	15	7.4	6.8	9.1	12	17	44	36	18	29	29	37	38	27	42	28
Benzene	0.47	0.66	0.49	1.4	0.31	0.30	0.38	0.35	0.23	0.64	0.67	0.82	0.55	0.47	0.56	2.2	0.68	0.39	0.47	0.69	0.36
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	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
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.12 U	0.12 U	0.24	0.14 U	0.14 U	0.13	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
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6 U	0.93 U	0.93 U	0.052	1.1 U	1.6	0.52	0.38	0.39	0.15	0.19	0.62	0.46 J	0.27 J	0.31 J	0.35 J
Carbon tetrachloride	0.48	0.44	0.46	**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	0.46	0.45	0.40	0.39	0.37	0.35	0.31
Chlorobenzene	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	0.47	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
Chloroethane	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	0.053 U	0.093 U	0.093 U	0.093 U
Chloroform	0.24 U	**3.3**	0.24 U	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	0.44	0.46	**0.84**	**1.2**	**0.69**	0.39	**1.2**
Chloromethane	1.2	1.0	0.95	0.95	1.1	1.5	1.4	1.0	1.3	1.3	1.1	1.3	1.6	1.0	1.1	1.4	1.2	0.89	0.97	1.2	1.8
cis-1,2-Dichloroethene	0.44	0.20 U	1.8	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	0.14 U	0.14 U	0.14 U	0.04 U	0.87	0.14 U	0.14 U
cis-1,3-Dichloropropene	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
Cyclohexane	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	0.26	2.1	0.12 U	0.12 U	0.12 U	0.12 U	0.33	0.12 U	0.069 U	0.12 U	0.12 U	0.12 U
Dibromochloromethane	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
Dichlorodifluoromethane	2.6	1.5	2.0	3.2	1.8	1.7	2.8	2.0	2.9	2.8	2.8	1.7	3.3	1.8	2.7	1.3	2.1	2.1	1.7	1.4	2.1
Ethanol	8.7	9.8	3.4	8.9	5.3	7.0	2.4	2.5	9.4	7.3	7.5	46	79	71	91	83	240	150	260	190	330
Ethyl acetate	0.18 U	0.18 U	0.18 U	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	0.13 U	0.88	0.26	0.38	0.46	0.69	0.69
Ethylbenzene	0.29	0.44	0.22 U	0.49	0.22 U	0.22 U	0.16	0.17	0.14	0.38	4.1	0.32	0.43	0.19	0.15 U	0.57	0.27	0.12	0.14 J	0.19	0.16
Hexachlorobutadiene	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
Hexane	2.8	0.61	0.38	1.7	1.0	7.0 U	0.35	0.55	0.47	5.0	17	0.89	2.8	0.53	4.9 U	1.3	0.75	0.58 J	0.44 J	5.6	0.45 J
Isopropyl alcohol	1.8	8.3	0.48	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	8.4	4.4	3.9	4.8	8.2	7.1	3.9
m,p-Xylene	1.1	1.4	0.43 U	1.4	0.41 J	0.53	0.41	0.27	0.38	1.2	17	1.1	1.6	0.53	0.28	1.6	0.86	0.4	0.56	0.62	0.46
Methyl methacrylate			0.20 U	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	0.14 U	0.14 U	0.14 U	0.082 U	0.14 U	0.14 U	
Methylene chloride	7.7	0.68	0.79	5.1	3.2	1.7 U	1.5	2.0	0.72	12	1.3	0.97	3.1	0.89	0.69	0.72	0.61	0.64 J	0.29 J	1.5	0.45 J

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-4-070110 7/1/2010	IA-4-091610 9/16/2010	IA-4-120710 12/7/2010	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	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
Methyl-t-butyl ether	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	0.19	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
n-Heptane	0.22	0.32	0.20 U	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	0.14 U	0.66	0.39	0.17	0.11 J	0.22	0.17
o-Xylene	0.50	0.57	0.22 U	0.53	0.22 U	0.22 U	0.15	0.11	0.17	0.41	5.1	0.43	0.57	0.23	0.15 U	0.66	0.33	0.16	0.17	0.25	0.19
Propylene (Propene)	1.1	0.35 U	0.86 U	0.86 U	0.86 U	3.4 U	2.1 U	2.1 U	2.1 U	1.7	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	3.0	1.4 U	2.4 U	2.4 U	2.4 U
Styrene	0.29	0.21 U	0.21 U	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	0.15 U	0.23	0.46	0.4	0.15 J	0.19	0.38
Tetrachloroethene	1.1	0.34 U	3.4	5.0	0.34 U	0.45	1.2	0.31	0.12	1.7	0.18	0.21	0.45	0.30	0.24 U	0.31	0.32	0.23	3.2	0.98	0.36
Tetrahydrofuran	0.24	0.15 U	0.15 U	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	0.10 U	0.10 U	0.12	0.094	0.1 U	0.24	0.11
Toluene	1.0	2.0	0.43	2.7	0.56	0.95	1.6	0.32	0.80	2.9	4.8	1.5	3.0	1.4	0.75	3.4	1.9	1.4	1.4	1.4	1.2
trans-1,2-Dichloroethene	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.12 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
trans-1,3-Dichloropropene	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
Trichloroethene	0.44	0.27 U	**1.8**	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	0.19 U	0.24	0.19 U	0.054 U	**1.2**	0.083 J	0.19 U
Trichlorofluoromethane	1.9	2.4	1.2	1.8	1.4	1.8	1.3	0.87	1.5	1.7	2.8	1.2	2.2	1.3	1.5	1.3	1.4	1.3	1.3	1.4	1.4
Trichlorotrifluoroethane	0.59	0.43	0.54	0.70	0.71	0.52	0.71	0.44	0.56	0.59	0.60	0.66	1.6	0.65	0.58	0.49	0.54	0.55	0.62	0.52 J	0.65 J
Vinyl acetate	0.18 U	0.36 U	0.38	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
Vinyl chloride	0.13 U	0.13 U	0.16	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	0.072 J	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)	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	0.45	0.52	0.65	0.57	0.51	0.44	0.69	0.50	0.49	0.53
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	0.37 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	0.29	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	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	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	0.11 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	0.30 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	3.3	3.4	2.1	2.6	2.0	1.6	3.1	2.5	2.6	1.4
2-Hexanone	0.73	0.66	0.38	0.51	0.37	0.38	0.61	0.48	0.43	0.29
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	0.42	0.39	0.32	0.36	0.54	0.27	0.32	0.30	0.61	0.23
Acetone	12	13	10	11	8.5	7.7	13	11	9.8	6.9
Benzene	0.54	0.60	0.67	0.55	0.56	0.51	0.53	0.60	0.51	0.57
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	0.33 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 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	0.19 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	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	**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	0.23 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	0.24 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	1.0	0.98	1.0	0.95	1.0	1.0	0.92	1.1	0.91	1.2
cis-1,2-Dichloroethene	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	0.22 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	0.17 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	2.5	2.3	2.6	2.4	2.7	2.4	2.4	2.8	2.3	2.7
Ethanol	65	9.0	6.5	5.9	6.0	5.6	5.9	14	44	14
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	0.22 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	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	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	3.3	3.4	3.7	3.5	3.6	3.4	4.4	3.6	2.8	3.2
m,p-Xylene	0.58	0.57	0.58	0.55	0.49	0.50	0.48	0.53	1.0	0.50
Methyl methacrylate										
Methylene chloride	5.9	1.5	1.5	1.6	1.9	1.6	1.5	1.6	1.6	1.4

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)	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
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	0.20 U	0.20 U	0.20 U
o-Xylene	0.28	0.28	0.27	0.27	0.25	0.26	0.25	0.27	0.34	0.26
Propylene (Propene)	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	0.23	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	0.47	0.47	0.54	0.66	0.64	0.60	0.73	0.53	0.46	0.46
Tetrahydrofuran	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	0.73	0.7	0.58	0.59	0.51	0.53	0.57	0.53	0.54	0.47
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	0.22 U
Trichloroethene	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	1.3	1.3	1.2	1.1	1.4	1.3	1.1	1.4	1.0	1.4
Trichlorotrifluoroethane	0.63	0.60	0.65	0.62	0.64	0.57	0.59	0.68	0.62	0.58
Vinyl 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
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	0.13 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

Prepared by / Date: AKN 06/19/15
Checked by / Date: MAM 07/10/15

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

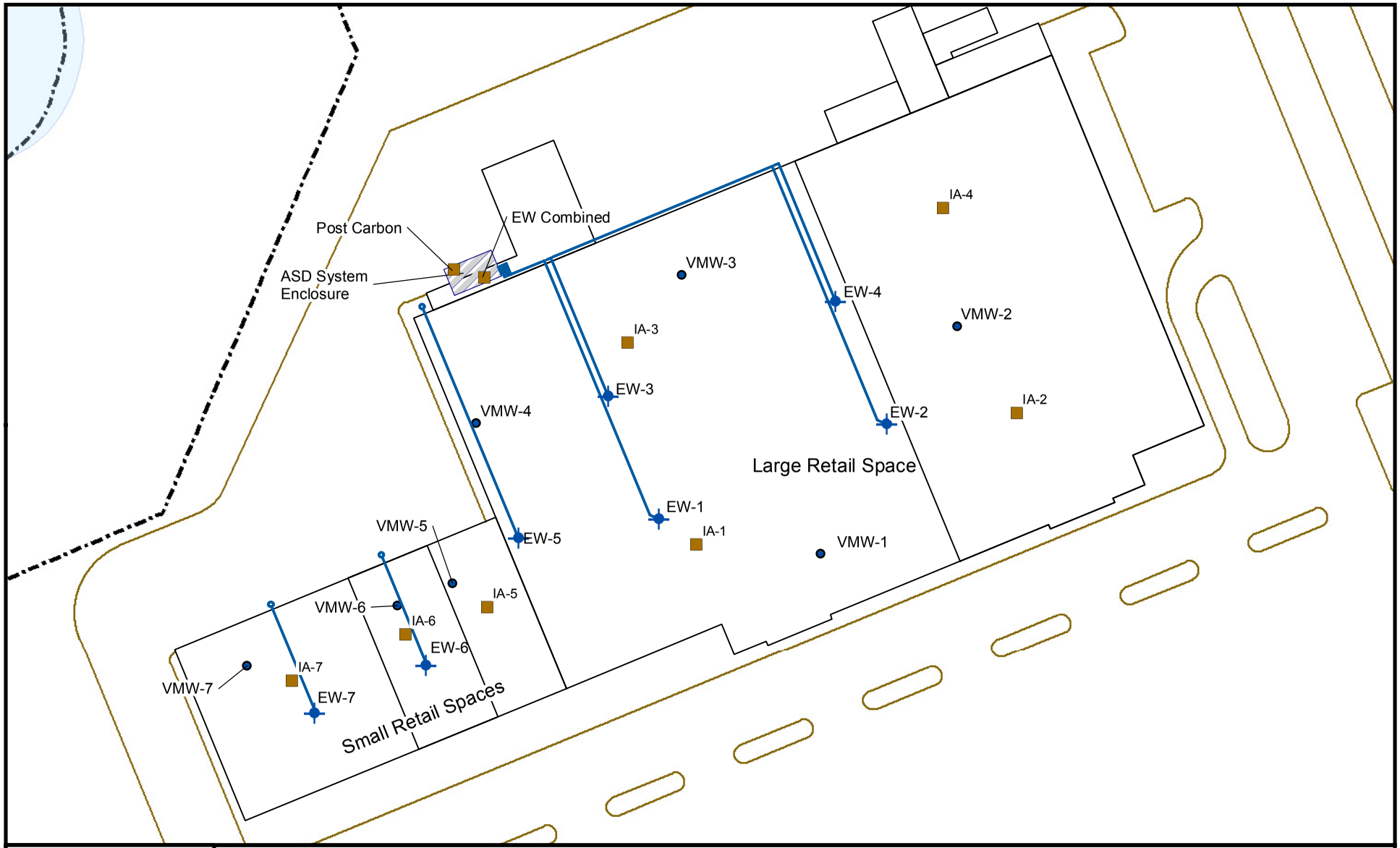
Table 4.
Vacuum Monitoring Results - Large Retail Space
Former Gorham Manufacturing Site
Providence, Rhode Island

	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***

* 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 07/14/15
Checked by/Date: 7/14/15

FIGURES



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

Laboratory Reports

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

June 18, 2015

Mark Maggiore
AMEC E&I, Inc.
271 Mill Road
Chelmsford, MA 01824

Project Location: Providence, RI
Client Job Number:
Project Number: 3652150005
Laboratory Work Order Number: 15F0576

Enclosed are results of analyses for samples received by the laboratory on June 11, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

AMEC E&I, Inc.
271 Mill Road
Chelmsford, MA 01824
ATTN: Mark Maggiore

REPORT DATE: 6/18/2015

PURCHASE ORDER NUMBER: C012206368

PROJECT NUMBER: 3652150005

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15F0576

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-1-061115	15F0576-01	Indoor air		EPA TO-15	
IA-2-061115	15F0576-02	Indoor air		EPA TO-15	
IA-3-061115	15F0576-03	Indoor air		EPA TO-15	
IA-4-061115	15F0576-04	Indoor air		EPA TO-15	
IA-5-061115	15F0576-05	Indoor air		EPA TO-15	
IA-6-061115	15F0576-06	Indoor air		EPA TO-15	
IA-7-061115	15F0576-07	Indoor air		EPA TO-15	
AA-1-061115	15F0576-08	Ambient Air		EPA TO-15	
EW-5-061115	15F0576-09	Sub Slab		EPA TO-15	
EW-6-061115	15F0576-10	Sub Slab		EPA TO-15	
EW-7-061115	15F0576-11	Sub Slab		EPA TO-15	
EW-Combined-061115	15F0576-12	Sub Slab		EPA TO-15	

con-test® ANALYTICAL LABORATORY

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

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:

1,3-Dichlorobenzene, Bromoform, Hexachlorobutadiene

B124342-BS1

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

Analyte & Samples(s) Qualified:

Isopropanol, Styrene

15F0576-01[IA-1-061115], 15F0576-02[IA-2-061115], 15F0576-03[IA-3-061115], 15F0576-04[IA-4-061115], 15F0576-05[IA-5-061115], 15F0576-06[IA-6-061115], 15F0576-07[IA-7-061115], 15F0576-08[AA-1-061115], 15F0576-09[EW-5-061115], 15F0576-10[EW-6-061115], 15F0576-11[EW-7-061115], 15F0576-12[EW-Combined-061115], B124342-BLK1, B124342-BS1, B124342-DUP1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Acetone, Benzyl chloride, Isopropanol

15F0576-01[IA-1-061115], 15F0576-02[IA-2-061115], 15F0576-03[IA-3-061115], 15F0576-04[IA-4-061115], 15F0576-05[IA-5-061115], 15F0576-06[IA-6-061115], 15F0576-07[IA-7-061115], 15F0576-08[AA-1-061115], 15F0576-09[EW-5-061115], 15F0576-10[EW-6-061115], 15F0576-11[EW-7-061115], 15F0576-12[EW-Combined-061115], B124342-BLK1, B124342-BS1, B124342-DUP1

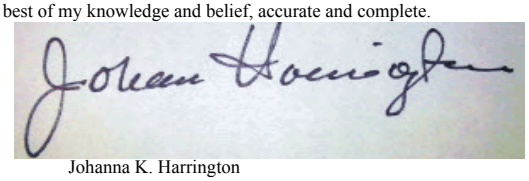
Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

1,2,4-Trichlorobenzene, Hexachlorobutadiene

B124342-BS1

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.



Johanna K. Harrington
Manager, Laboratory Reporting

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: 6/11/2015
Field Sample #: IA-1-061115
Sample ID: 15F0576-01
Sample Matrix: Indoor air
Sampled: 6/11/2015 07:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 1846
Canister Size: 6 liter
Flow Controller ID: 4205
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.6
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	3.2	1.4	0.49	V-05	7.7	3.3	0.702	6/12/15 19:31	TPH
Benzene	0.073	0.035	0.018		0.23	0.11	0.702	6/12/15 19:31	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 19:31	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 19:31	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 19:31	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 19:31	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 19:31	TPH
2-Butanone (MEK)	0.36	1.4	0.026	J	1.1	4.1	0.702	6/12/15 19:31	TPH
Carbon Disulfide	0.072	0.35	0.012	J	0.22	1.1	0.702	6/12/15 19:31	TPH
Carbon Tetrachloride	0.054	0.035	0.0085		0.34	0.22	0.702	6/12/15 19:31	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 19:31	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 19:31	TPH
Chloroform	0.028	0.035	0.0082	J	0.14	0.17	0.702	6/12/15 19:31	TPH
Chloromethane	0.58	0.070	0.015		1.2	0.14	0.702	6/12/15 19:31	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 19:31	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 19:31	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 19:31	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 19:31	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 19:31	TPH
1,4-Dichlorobenzene	ND	0.035	0.0088		ND	0.21	0.702	6/12/15 19:31	TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.015		2.3	0.17	0.702	6/12/15 19:31	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 19:31	TPH
1,2-Dichloroethane	0.015	0.035	0.0098	J	0.060	0.14	0.702	6/12/15 19:31	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 19:31	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 19:31	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 19:31	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 19:31	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 19:31	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 19:31	TPH
Ethanol	6.0	1.4	0.63		11	2.6	0.702	6/12/15 19:31	TPH
Ethyl Acetate	ND	0.035	0.026		ND	0.13	0.702	6/12/15 19:31	TPH
Ethylbenzene	0.024	0.035	0.0097	J	0.10	0.15	0.702	6/12/15 19:31	TPH
4-Ethyltoluene	ND	0.035	0.0079		ND	0.17	0.702	6/12/15 19:31	TPH
Heptane	0.030	0.035	0.011	J	0.12	0.14	0.702	6/12/15 19:31	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 19:31	TPH
Hexane	0.10	1.4	0.062	J	0.35	4.9	0.702	6/12/15 19:31	TPH
2-Hexanone (MBK)	ND	0.035	0.0090		ND	0.14	0.702	6/12/15 19:31	TPH
Isopropanol	0.80	1.4	0.043	L-03, V-05, J	2.0	3.4	0.702	6/12/15 19:31	TPH

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-1-061115
Sample ID: 15F0576-01
Sample Matrix: Indoor air
Sampled: 6/11/2015 07:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 1846
Canister Size: 6 liter
Flow Controller ID: 4205
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.6
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	0.011		ND	0.13	0.702	6/12/15 19:31	TPH
Methylene Chloride	0.15	0.35	0.043	J	0.51	1.2	0.702	6/12/15 19:31	TPH
4-Methyl-2-pentanone (MIBK)	0.020	0.035	0.0084	J	0.080	0.14	0.702	6/12/15 19:31	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 19:31	TPH
Styrene	0.0098	0.035	0.0068	L-03, J	0.042	0.15	0.702	6/12/15 19:31	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 19:31	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 19:31	TPH
Tetrachloroethylene	0.033	0.035	0.010	J	0.22	0.24	0.702	6/12/15 19:31	TPH
Tetrahydrofuran	ND	0.035	0.015		ND	0.10	0.702	6/12/15 19:31	TPH
Toluene	0.17	0.035	0.011		0.62	0.13	0.702	6/12/15 19:31	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 19:31	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 19:31	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 19:31	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 19:31	TPH
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.012		1.5	0.79	0.702	6/12/15 19:31	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.082	0.14	0.0098	J	0.63	1.1	0.702	6/12/15 19:31	TPH
1,2,4-Trimethylbenzene	0.029	0.035	0.0086	J	0.14	0.17	0.702	6/12/15 19:31	TPH
1,3,5-Trimethylbenzene	0.014	0.035	0.0070	J	0.069	0.17	0.702	6/12/15 19:31	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 19:31	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 19:31	TPH
m&p-Xylene	0.078	0.070	0.018		0.34	0.30	0.702	6/12/15 19:31	TPH
o-Xylene	0.030	0.035	0.010	J	0.13	0.15	0.702	6/12/15 19:31	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	118	70-130	6/12/15 19:31
4-Bromofluorobenzene (2)	99.2	70-130	6/12/15 19:31

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-2-061115
Sample ID: 15F0576-02
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:37

Sample Description/Location:
Sub Description/Location:
Canister ID: 1161
Canister Size: 6 liter
Flow Controller ID: 4193
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -4.6
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	12	1.4	0.49	V-05	29	3.3	0.702	6/12/15 20:15	TPH
Benzene	0.12	0.035	0.018		0.39	0.11	0.702	6/12/15 20:15	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 20:15	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 20:15	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 20:15	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 20:15	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 20:15	TPH
2-Butanone (MEK)	0.61	1.4	0.026	J	1.8	4.1	0.702	6/12/15 20:15	TPH
Carbon Disulfide	0.12	0.35	0.012	J	0.39	1.1	0.702	6/12/15 20:15	TPH
Carbon Tetrachloride	0.055	0.035	0.0085		0.35	0.22	0.702	6/12/15 20:15	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 20:15	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 20:15	TPH
Chloroform	0.13	0.035	0.0082		0.62	0.17	0.702	6/12/15 20:15	TPH
Chloromethane	0.62	0.070	0.015		1.3	0.14	0.702	6/12/15 20:15	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 20:15	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 20:15	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 20:15	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 20:15	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 20:15	TPH
1,4-Dichlorobenzene	0.016	0.035	0.0088	J	0.097	0.21	0.702	6/12/15 20:15	TPH
Dichlorodifluoromethane (Freon 12)	0.48	0.035	0.015		2.4	0.17	0.702	6/12/15 20:15	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 20:15	TPH
1,2-Dichloroethane	0.016	0.035	0.0098	J	0.065	0.14	0.702	6/12/15 20:15	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 20:15	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 20:15	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 20:15	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 20:15	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 20:15	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 20:15	TPH
Ethanol	120	1.4	0.63		220	2.6	0.702	6/12/15 20:15	TPH
Ethyl Acetate	0.13	0.035	0.026		0.49	0.13	0.702	6/12/15 20:15	TPH
Ethylbenzene	0.035	0.035	0.0097		0.15	0.15	0.702	6/12/15 20:15	TPH
4-Ethyltoluene	ND	0.035	0.0079		ND	0.17	0.702	6/12/15 20:15	TPH
Heptane	0.048	0.035	0.011		0.20	0.14	0.702	6/12/15 20:15	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 20:15	TPH
Hexane	0.12	1.4	0.062	J	0.44	4.9	0.702	6/12/15 20:15	TPH
2-Hexanone (MBK)	0.029	0.035	0.0090	J	0.12	0.14	0.702	6/12/15 20:15	TPH
Isopropanol	1.6	1.4	0.043	L-03, V-05	3.8	3.4	0.702	6/12/15 20:15	TPH

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-2-061115
Sample ID: 15F0576-02
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:37

Sample Description/Location:
Sub Description/Location:
Canister ID: 1161
Canister Size: 6 liter
Flow Controller ID: 4193
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -4.6
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	0.011		ND	0.13	0.702	6/12/15 20:15	TPH
Methylene Chloride	0.13	0.35	0.043	J	0.45	1.2	0.702	6/12/15 20:15	TPH
4-Methyl-2-pentanone (MIBK)	0.22	0.035	0.0084		0.90	0.14	0.702	6/12/15 20:15	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 20:15	TPH
Styrene	0.053	0.035	0.0068	L-03	0.23	0.15	0.702	6/12/15 20:15	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 20:15	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 20:15	TPH
Tetrachloroethylene	0.060	0.035	0.010		0.40	0.24	0.702	6/12/15 20:15	TPH
Tetrahydrofuran	0.039	0.035	0.015		0.12	0.10	0.702	6/12/15 20:15	TPH
Toluene	0.34	0.035	0.011		1.3	0.13	0.702	6/12/15 20:15	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 20:15	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 20:15	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 20:15	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 20:15	TPH
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.012		1.5	0.79	0.702	6/12/15 20:15	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.081	0.14	0.0098	J	0.62	1.1	0.702	6/12/15 20:15	TPH
1,2,4-Trimethylbenzene	0.046	0.035	0.0086		0.23	0.17	0.702	6/12/15 20:15	TPH
1,3,5-Trimethylbenzene	0.014	0.035	0.0070	J	0.069	0.17	0.702	6/12/15 20:15	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 20:15	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 20:15	TPH
m&p-Xylene	0.10	0.070	0.018		0.45	0.30	0.702	6/12/15 20:15	TPH
o-Xylene	0.044	0.035	0.010		0.19	0.15	0.702	6/12/15 20:15	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/12/15 20:15
4-Bromofluorobenzene (2)	97.9	70-130	6/12/15 20:15

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-3-061115
Sample ID: 15F0576-03
Sample Matrix: Indoor air
Sampled: 6/11/2015 07:51

Sample Description/Location:
Sub Description/Location:
Canister ID: 1009
Canister Size: 6 liter
Flow Controller ID: 4204
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
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	4.3	1.4	0.49	V-05	10	3.3	0.702	6/12/15 20:59	TPH
Benzene	0.087	0.035	0.018		0.28	0.11	0.702	6/12/15 20:59	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 20:59	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 20:59	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 20:59	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 20:59	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 20:59	TPH
2-Butanone (MEK)	0.51	1.4	0.026	J	1.5	4.1	0.702	6/12/15 20:59	TPH
Carbon Disulfide	0.029	0.35	0.012	J	0.092	1.1	0.702	6/12/15 20:59	TPH
Carbon Tetrachloride	0.057	0.035	0.0085		0.36	0.22	0.702	6/12/15 20:59	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 20:59	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 20:59	TPH
Chloroform	0.029	0.035	0.0082	J	0.14	0.17	0.702	6/12/15 20:59	TPH
Chloromethane	0.81	0.070	0.015		1.7	0.14	0.702	6/12/15 20:59	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 20:59	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 20:59	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 20:59	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 20:59	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 20:59	TPH
1,4-Dichlorobenzene	ND	0.035	0.0088		ND	0.21	0.702	6/12/15 20:59	TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.015		2.3	0.17	0.702	6/12/15 20:59	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 20:59	TPH
1,2-Dichloroethane	0.014	0.035	0.0098	J	0.057	0.14	0.702	6/12/15 20:59	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 20:59	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 20:59	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 20:59	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 20:59	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 20:59	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 20:59	TPH
Ethanol	8.3	1.4	0.63		16	2.6	0.702	6/12/15 20:59	TPH
Ethyl Acetate	ND	0.035	0.026		ND	0.13	0.702	6/12/15 20:59	TPH
Ethylbenzene	0.028	0.035	0.0097	J	0.12	0.15	0.702	6/12/15 20:59	TPH
4-Ethyltoluene	0.0091	0.035	0.0079	J	0.045	0.17	0.702	6/12/15 20:59	TPH
Heptane	0.046	0.035	0.011		0.19	0.14	0.702	6/12/15 20:59	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 20:59	TPH
Hexane	0.13	1.4	0.062	J	0.45	4.9	0.702	6/12/15 20:59	TPH
2-Hexanone (MBK)	0.035	0.035	0.0090		0.14	0.14	0.702	6/12/15 20:59	TPH
Isopropanol	0.36	1.4	0.043	L-03, V-05, J	0.87	3.4	0.702	6/12/15 20:59	TPH

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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: 6/11/2015
Field Sample #: IA-3-061115
Sample ID: 15F0576-03
Sample Matrix: Indoor air
Sampled: 6/11/2015 07:51

Sample Description/Location:
Sub Description/Location:
Canister ID: 1009
Canister Size: 6 liter
Flow Controller ID: 4204
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -4
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	0.011		ND	0.13	0.702	6/12/15 20:59	TPH
Methylene Chloride	0.15	0.35	0.043	J	0.54	1.2	0.702	6/12/15 20:59	TPH
4-Methyl-2-pentanone (MIBK)	0.032	0.035	0.0084	J	0.13	0.14	0.702	6/12/15 20:59	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 20:59	TPH
Styrene	0.0077	0.035	0.0068	L-03, J	0.033	0.15	0.702	6/12/15 20:59	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 20:59	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 20:59	TPH
Tetrachloroethylene	0.039	0.035	0.010		0.26	0.24	0.702	6/12/15 20:59	TPH
Tetrahydrofuran	ND	0.035	0.015		ND	0.10	0.702	6/12/15 20:59	TPH
Toluene	0.20	0.035	0.011		0.77	0.13	0.702	6/12/15 20:59	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 20:59	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 20:59	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 20:59	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 20:59	TPH
Trichlorofluoromethane (Freon 11)	0.31	0.14	0.012		1.7	0.79	0.702	6/12/15 20:59	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.090	0.14	0.0098	J	0.69	1.1	0.702	6/12/15 20:59	TPH
1,2,4-Trimethylbenzene	0.027	0.035	0.0086	J	0.13	0.17	0.702	6/12/15 20:59	TPH
1,3,5-Trimethylbenzene	0.016	0.035	0.0070	J	0.079	0.17	0.702	6/12/15 20:59	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 20:59	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 20:59	TPH
m&p-Xylene	0.091	0.070	0.018		0.39	0.30	0.702	6/12/15 20:59	TPH
o-Xylene	0.032	0.035	0.010	J	0.14	0.15	0.702	6/12/15 20:59	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	121	70-130	6/12/15 20:59
4-Bromofluorobenzene (2)	105	70-130	6/12/15 20:59

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-4-061115
Sample ID: 15F0576-04
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1163
Canister Size: 6 liter
Flow Controller ID: 4192
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5
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	12	1.4	0.49	V-05	28	3.3	0.702	6/12/15 21:42	TPH
Benzene	0.11	0.035	0.018		0.36	0.11	0.702	6/12/15 21:42	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 21:42	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 21:42	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 21:42	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 21:42	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 21:42	TPH
2-Butanone (MEK)	0.66	1.4	0.026	J	1.9	4.1	0.702	6/12/15 21:42	TPH
Carbon Disulfide	0.11	0.35	0.012	J	0.35	1.1	0.702	6/12/15 21:42	TPH
Carbon Tetrachloride	0.050	0.035	0.0085		0.31	0.22	0.702	6/12/15 21:42	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 21:42	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 21:42	TPH
Chloroform	0.24	0.035	0.0082		1.2	0.17	0.702	6/12/15 21:42	TPH
Chloromethane	0.85	0.070	0.015		1.8	0.14	0.702	6/12/15 21:42	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 21:42	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 21:42	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 21:42	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 21:42	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 21:42	TPH
1,4-Dichlorobenzene	0.020	0.035	0.0088	J	0.12	0.21	0.702	6/12/15 21:42	TPH
Dichlorodifluoromethane (Freon 12)	0.43	0.035	0.015		2.1	0.17	0.702	6/12/15 21:42	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 21:42	TPH
1,2-Dichloroethane	0.013	0.035	0.0098	J	0.051	0.14	0.702	6/12/15 21:42	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 21:42	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 21:42	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 21:42	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 21:42	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 21:42	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 21:42	TPH
Ethanol	180	1.4	0.63		330	2.6	0.702	6/12/15 21:42	TPH
Ethyl Acetate	0.19	0.035	0.026		0.69	0.13	0.702	6/12/15 21:42	TPH
Ethylbenzene	0.036	0.035	0.0097		0.16	0.15	0.702	6/12/15 21:42	TPH
4-Ethyltoluene	0.0084	0.035	0.0079	J	0.041	0.17	0.702	6/12/15 21:42	TPH
Heptane	0.041	0.035	0.011		0.17	0.14	0.702	6/12/15 21:42	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 21:42	TPH
Hexane	0.13	1.4	0.062	J	0.45	4.9	0.702	6/12/15 21:42	TPH
2-Hexanone (MBK)	ND	0.035	0.0090		ND	0.14	0.702	6/12/15 21:42	TPH
Isopropanol	1.6	1.4	0.043	L-03, V-05	3.9	3.4	0.702	6/12/15 21:42	TPH

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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: 6/11/2015
Field Sample #: IA-4-061115
Sample ID: 15F0576-04
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:39

Sample Description/Location:
Sub Description/Location:
Canister ID: 1163
Canister Size: 6 liter
Flow Controller ID: 4192
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5
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	0.011		ND	0.13	0.702	6/12/15 21:42	TPH
Methylene Chloride	0.13	0.35	0.043	J	0.45	1.2	0.702	6/12/15 21:42	TPH
4-Methyl-2-pentanone (MIBK)	0.24	0.035	0.0084		0.97	0.14	0.702	6/12/15 21:42	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 21:42	TPH
Styrene	0.088	0.035	0.0068	L-03	0.38	0.15	0.702	6/12/15 21:42	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 21:42	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 21:42	TPH
Tetrachloroethylene	0.053	0.035	0.010		0.36	0.24	0.702	6/12/15 21:42	TPH
Tetrahydrofuran	0.037	0.035	0.015		0.11	0.10	0.702	6/12/15 21:42	TPH
Toluene	0.33	0.035	0.011		1.2	0.13	0.702	6/12/15 21:42	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 21:42	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 21:42	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 21:42	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 21:42	TPH
Trichlorofluoromethane (Freon 11)	0.26	0.14	0.012		1.4	0.79	0.702	6/12/15 21:42	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.14	0.0098	J	0.65	1.1	0.702	6/12/15 21:42	TPH
1,2,4-Trimethylbenzene	0.040	0.035	0.0086		0.20	0.17	0.702	6/12/15 21:42	TPH
1,3,5-Trimethylbenzene	0.013	0.035	0.0070	J	0.066	0.17	0.702	6/12/15 21:42	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 21:42	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 21:42	TPH
m&p-Xylene	0.11	0.070	0.018		0.46	0.30	0.702	6/12/15 21:42	TPH
o-Xylene	0.043	0.035	0.010		0.19	0.15	0.702	6/12/15 21:42	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	119	70-130	6/12/15 21:42
4-Bromofluorobenzene (2)	102	70-130	6/12/15 21:42

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: 6/11/2015
Field Sample #: IA-5-061115
Sample ID: 15F0576-05
Sample Matrix: Indoor air
Sampled: 6/11/2015 09:29

Sample Description/Location:
Sub Description/Location:
Canister ID: 1320
Canister Size: 6 liter
Flow Controller ID: 4077
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -8.4
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	5.2	1.4	0.49	V-05	12	3.3	0.702	6/12/15 22:26	TPH
Benzene	0.10	0.035	0.018		0.33	0.11	0.702	6/12/15 22:26	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 22:26	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 22:26	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 22:26	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 22:26	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 22:26	TPH
2-Butanone (MEK)	0.47	1.4	0.026	J	1.4	4.1	0.702	6/12/15 22:26	TPH
Carbon Disulfide	0.031	0.35	0.012	J	0.096	1.1	0.702	6/12/15 22:26	TPH
Carbon Tetrachloride	0.058	0.035	0.0085		0.37	0.22	0.702	6/12/15 22:26	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 22:26	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 22:26	TPH
Chloroform	0.029	0.035	0.0082	J	0.14	0.17	0.702	6/12/15 22:26	TPH
Chloromethane	0.63	0.070	0.015		1.3	0.14	0.702	6/12/15 22:26	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 22:26	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 22:26	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 22:26	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 22:26	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 22:26	TPH
1,4-Dichlorobenzene	ND	0.035	0.0088		ND	0.21	0.702	6/12/15 22:26	TPH
Dichlorodifluoromethane (Freon 12)	0.41	0.035	0.015		2.0	0.17	0.702	6/12/15 22:26	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 22:26	TPH
1,2-Dichloroethane	0.016	0.035	0.0098	J	0.065	0.14	0.702	6/12/15 22:26	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 22:26	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 22:26	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 22:26	TPH
1,2-Dichloropropane	0.022	0.035	0.012	J	0.10	0.16	0.702	6/12/15 22:26	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 22:26	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 22:26	TPH
Ethanol	13	1.4	0.63		25	2.6	0.702	6/12/15 22:26	TPH
Ethyl Acetate	0.048	0.035	0.026		0.17	0.13	0.702	6/12/15 22:26	TPH
Ethylbenzene	0.028	0.035	0.0097	J	0.12	0.15	0.702	6/12/15 22:26	TPH
4-Ethyltoluene	0.0084	0.035	0.0079	J	0.041	0.17	0.702	6/12/15 22:26	TPH
Heptane	0.041	0.035	0.011		0.17	0.14	0.702	6/12/15 22:26	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 22:26	TPH
Hexane	0.12	1.4	0.062	J	0.42	4.9	0.702	6/12/15 22:26	TPH
2-Hexanone (MBK)	0.039	0.035	0.0090		0.16	0.14	0.702	6/12/15 22:26	TPH
Isopropanol	3.8	1.4	0.043	L-03, V-05	9.4	3.4	0.702	6/12/15 22:26	TPH

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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: 6/11/2015
Field Sample #: IA-5-061115
Sample ID: 15F0576-05
Sample Matrix: Indoor air
Sampled: 6/11/2015 09:29

Sample Description/Location:
Sub Description/Location:
Canister ID: 1320
Canister Size: 6 liter
Flow Controller ID: 4077
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -6
Receipt Vacuum(in Hg): -8.4
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	0.035	0.011		ND	0.13	0.702	6/12/15 22:26	TPH
Methylene Chloride	0.14	0.35	0.043	J	0.48	1.2	0.702	6/12/15 22:26	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.0084		ND	0.14	0.702	6/12/15 22:26	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 22:26	TPH
Styrene	0.022	0.035	0.0068	L-03, J	0.096	0.15	0.702	6/12/15 22:26	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 22:26	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 22:26	TPH
Tetrachloroethylene	0.029	0.035	0.010	J	0.20	0.24	0.702	6/12/15 22:26	TPH
Tetrahydrofuran	ND	0.035	0.015		ND	0.10	0.702	6/12/15 22:26	TPH
Toluene	0.20	0.035	0.011		0.75	0.13	0.702	6/12/15 22:26	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 22:26	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 22:26	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 22:26	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 22:26	TPH
Trichlorofluoromethane (Freon 11)	0.27	0.14	0.012		1.5	0.79	0.702	6/12/15 22:26	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.14	0.0098	J	0.67	1.1	0.702	6/12/15 22:26	TPH
1,2,4-Trimethylbenzene	0.025	0.035	0.0086	J	0.12	0.17	0.702	6/12/15 22:26	TPH
1,3,5-Trimethylbenzene	0.0077	0.035	0.0070	J	0.038	0.17	0.702	6/12/15 22:26	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 22:26	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 22:26	TPH
m&p-Xylene	0.082	0.070	0.018		0.36	0.30	0.702	6/12/15 22:26	TPH
o-Xylene	0.029	0.035	0.010	J	0.13	0.15	0.702	6/12/15 22:26	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/12/15 22:26
4-Bromofluorobenzene (2)	100	70-130	6/12/15 22:26

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-6-061115
Sample ID: 15F0576-06
Sample Matrix: Indoor air
Sampled: 6/11/2015 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1062
Canister Size: 6 liter
Flow Controller ID: 4085
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): 0
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	4.7	1.4	0.49	V-05	11	3.3	0.702	6/12/15 23:10	TPH
Benzene	0.072	0.035	0.018		0.23	0.11	0.702	6/12/15 23:10	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 23:10	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 23:10	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 23:10	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 23:10	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 23:10	TPH
2-Butanone (MEK)	0.41	1.4	0.026	J	1.2	4.1	0.702	6/12/15 23:10	TPH
Carbon Disulfide	0.027	0.35	0.012	J	0.083	1.1	0.702	6/12/15 23:10	TPH
Carbon Tetrachloride	0.059	0.035	0.0085		0.37	0.22	0.702	6/12/15 23:10	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 23:10	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 23:10	TPH
Chloroform	0.031	0.035	0.0082	J	0.15	0.17	0.702	6/12/15 23:10	TPH
Chloromethane	0.60	0.070	0.015		1.2	0.14	0.702	6/12/15 23:10	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 23:10	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 23:10	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 23:10	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 23:10	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 23:10	TPH
1,4-Dichlorobenzene	ND	0.035	0.0088		ND	0.21	0.702	6/12/15 23:10	TPH
Dichlorodifluoromethane (Freon 12)	0.52	0.035	0.015		2.6	0.17	0.702	6/12/15 23:10	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 23:10	TPH
1,2-Dichloroethane	0.013	0.035	0.0098	J	0.054	0.14	0.702	6/12/15 23:10	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 23:10	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 23:10	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 23:10	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 23:10	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 23:10	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 23:10	TPH
Ethanol	15	1.4	0.63		29	2.6	0.702	6/12/15 23:10	TPH
Ethyl Acetate	ND	0.035	0.026		ND	0.13	0.702	6/12/15 23:10	TPH
Ethylbenzene	0.029	0.035	0.0097	J	0.13	0.15	0.702	6/12/15 23:10	TPH
4-Ethyltoluene	0.011	0.035	0.0079	J	0.055	0.17	0.702	6/12/15 23:10	TPH
Heptane	0.034	0.035	0.011	J	0.14	0.14	0.702	6/12/15 23:10	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 23:10	TPH
Hexane	0.092	1.4	0.062	J	0.32	4.9	0.702	6/12/15 23:10	TPH
2-Hexanone (MBK)	0.029	0.035	0.0090	J	0.12	0.14	0.702	6/12/15 23:10	TPH
Isopropanol	1.9	1.4	0.043	L-03, V-05	4.7	3.4	0.702	6/12/15 23:10	TPH

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-6-061115
Sample ID: 15F0576-06
Sample Matrix: Indoor air
Sampled: 6/11/2015 09:35

Sample Description/Location:
Sub Description/Location:
Canister ID: 1062
Canister Size: 6 liter
Flow Controller ID: 4085
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): 0
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	0.011		ND	0.13	0.702	6/12/15 23:10	TPH
Methylene Chloride	0.12	0.35	0.043	J	0.41	1.2	0.702	6/12/15 23:10	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.0084		ND	0.14	0.702	6/12/15 23:10	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 23:10	TPH
Styrene	0.022	0.035	0.0068	L-03, J	0.093	0.15	0.702	6/12/15 23:10	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 23:10	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 23:10	TPH
Tetrachloroethylene	0.031	0.035	0.010	J	0.21	0.24	0.702	6/12/15 23:10	TPH
Tetrahydrofuran	ND	0.035	0.015		ND	0.10	0.702	6/12/15 23:10	TPH
Toluene	0.20	0.035	0.011		0.77	0.13	0.702	6/12/15 23:10	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 23:10	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 23:10	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 23:10	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 23:10	TPH
Trichlorofluoromethane (Freon 11)	0.27	0.14	0.012		1.5	0.79	0.702	6/12/15 23:10	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.088	0.14	0.0098	J	0.67	1.1	0.702	6/12/15 23:10	TPH
1,2,4-Trimethylbenzene	0.027	0.035	0.0086	J	0.13	0.17	0.702	6/12/15 23:10	TPH
1,3,5-Trimethylbenzene	0.011	0.035	0.0070	J	0.052	0.17	0.702	6/12/15 23:10	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 23:10	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 23:10	TPH
m&p-Xylene	0.081	0.070	0.018		0.35	0.30	0.702	6/12/15 23:10	TPH
o-Xylene	0.031	0.035	0.010	J	0.13	0.15	0.702	6/12/15 23:10	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	118	70-130	6/12/15 23:10
4-Bromofluorobenzene (2)	100	70-130	6/12/15 23:10

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-7-061115
Sample ID: 15F0576-07
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1057
Canister Size: 6 liter
Flow Controller ID: 4088
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.4
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	10	1.4	0.49	V-05	24	3.3	0.702	6/12/15 23:54	TPH
Benzene	0.084	0.035	0.018		0.27	0.11	0.702	6/12/15 23:54	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/12/15 23:54	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/12/15 23:54	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/12/15 23:54	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/12/15 23:54	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/12/15 23:54	TPH
2-Butanone (MEK)	0.57	1.4	0.026	J	1.7	4.1	0.702	6/12/15 23:54	TPH
Carbon Disulfide	0.032	0.35	0.012	J	0.10	1.1	0.702	6/12/15 23:54	TPH
Carbon Tetrachloride	0.057	0.035	0.0085		0.36	0.22	0.702	6/12/15 23:54	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/12/15 23:54	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/12/15 23:54	TPH
Chloroform	0.039	0.035	0.0082		0.19	0.17	0.702	6/12/15 23:54	TPH
Chloromethane	0.64	0.070	0.015		1.3	0.14	0.702	6/12/15 23:54	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/12/15 23:54	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/12/15 23:54	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/12/15 23:54	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/12/15 23:54	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/12/15 23:54	TPH
1,4-Dichlorobenzene	0.025	0.035	0.0088	J	0.15	0.21	0.702	6/12/15 23:54	TPH
Dichlorodifluoromethane (Freon 12)	0.39	0.035	0.015		1.9	0.17	0.702	6/12/15 23:54	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/12/15 23:54	TPH
1,2-Dichloroethane	0.047	0.035	0.0098		0.19	0.14	0.702	6/12/15 23:54	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/12/15 23:54	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/12/15 23:54	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/12/15 23:54	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/12/15 23:54	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/12/15 23:54	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/12/15 23:54	TPH
Ethanol	56	1.4	0.63		110	2.6	0.702	6/12/15 23:54	TPH
Ethyl Acetate	0.11	0.035	0.026		0.39	0.13	0.702	6/12/15 23:54	TPH
Ethylbenzene	0.044	0.035	0.0097		0.19	0.15	0.702	6/12/15 23:54	TPH
4-Ethyltoluene	0.014	0.035	0.0079	J	0.069	0.17	0.702	6/12/15 23:54	TPH
Heptane	0.033	0.035	0.011	J	0.14	0.14	0.702	6/12/15 23:54	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/12/15 23:54	TPH
Hexane	0.10	1.4	0.062	J	0.36	4.9	0.702	6/12/15 23:54	TPH
2-Hexanone (MBK)	0.042	0.035	0.0090		0.17	0.14	0.702	6/12/15 23:54	TPH
Isopropanol	4.5	1.4	0.043	L-03, V-05	11	3.4	0.702	6/12/15 23:54	TPH

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: IA-7-061115
Sample ID: 15F0576-07
Sample Matrix: Indoor air
Sampled: 6/11/2015 10:00

Sample Description/Location:
Sub Description/Location:
Canister ID: 1057
Canister Size: 6 liter
Flow Controller ID: 4088
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -8.4
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)	0.018	0.035	0.011	J	0.063	0.13	0.702	6/12/15 23:54	TPH
Methylene Chloride	0.17	0.35	0.043	J	0.58	1.2	0.702	6/12/15 23:54	TPH
4-Methyl-2-pentanone (MIBK)	0.036	0.035	0.0084		0.15	0.14	0.702	6/12/15 23:54	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/12/15 23:54	TPH
Styrene	0.068	0.035	0.0068	L-03	0.29	0.15	0.702	6/12/15 23:54	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/12/15 23:54	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/12/15 23:54	TPH
Tetrachloroethylene	0.037	0.035	0.010		0.25	0.24	0.702	6/12/15 23:54	TPH
Tetrahydrofuran	0.052	0.035	0.015		0.15	0.10	0.702	6/12/15 23:54	TPH
Toluene	0.28	0.035	0.011		1.0	0.13	0.702	6/12/15 23:54	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/12/15 23:54	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/12/15 23:54	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/12/15 23:54	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/12/15 23:54	TPH
Trichlorofluoromethane (Freon 11)	0.27	0.14	0.012		1.5	0.79	0.702	6/12/15 23:54	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.085	0.14	0.0098	J	0.65	1.1	0.702	6/12/15 23:54	TPH
1,2,4-Trimethylbenzene	0.043	0.035	0.0086		0.21	0.17	0.702	6/12/15 23:54	TPH
1,3,5-Trimethylbenzene	0.017	0.035	0.0070	J	0.083	0.17	0.702	6/12/15 23:54	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/12/15 23:54	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/12/15 23:54	TPH
m&p-Xylene	0.11	0.070	0.018		0.48	0.30	0.702	6/12/15 23:54	TPH
o-Xylene	0.043	0.035	0.010		0.19	0.15	0.702	6/12/15 23:54	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/12/15 23:54
4-Bromofluorobenzene (2)	100	70-130	6/12/15 23:54

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: AA-1-061115
Sample ID: 15F0576-08
Sample Matrix: Ambient Air
Sampled: 6/11/2015 10:59

Sample Description/Location:
Sub Description/Location:
Canister ID: 1621
Canister Size: 6 liter
Flow Controller ID: 4067
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
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	4.3	1.4	0.49	V-05	10	3.3	0.702	6/13/15 0:38	TPH
Benzene	0.13	0.035	0.018		0.41	0.11	0.702	6/13/15 0:38	TPH
Benzyl chloride	ND	0.035	0.0068	V-05	ND	0.18	0.702	6/13/15 0:38	TPH
Bromodichloromethane	ND	0.035	0.0076		ND	0.24	0.702	6/13/15 0:38	TPH
Bromoform	ND	0.035	0.0067		ND	0.36	0.702	6/13/15 0:38	TPH
Bromomethane	ND	0.035	0.024		ND	0.14	0.702	6/13/15 0:38	TPH
1,3-Butadiene	ND	0.035	0.018		ND	0.078	0.702	6/13/15 0:38	TPH
2-Butanone (MEK)	0.72	1.4	0.026	J	2.1	4.1	0.702	6/13/15 0:38	TPH
Carbon Disulfide	ND	0.35	0.012		ND	1.1	0.702	6/13/15 0:38	TPH
Carbon Tetrachloride	0.058	0.035	0.0085		0.36	0.22	0.702	6/13/15 0:38	TPH
Chlorobenzene	ND	0.035	0.012		ND	0.16	0.702	6/13/15 0:38	TPH
Chloroethane	ND	0.035	0.013		ND	0.093	0.702	6/13/15 0:38	TPH
Chloroform	0.023	0.035	0.0082	J	0.11	0.17	0.702	6/13/15 0:38	TPH
Chloromethane	0.56	0.070	0.015		1.2	0.14	0.702	6/13/15 0:38	TPH
Cyclohexane	ND	0.035	0.020		ND	0.12	0.702	6/13/15 0:38	TPH
Dibromochloromethane	ND	0.035	0.0093		ND	0.30	0.702	6/13/15 0:38	TPH
1,2-Dibromoethane (EDB)	ND	0.035	0.0079		ND	0.27	0.702	6/13/15 0:38	TPH
1,2-Dichlorobenzene	ND	0.035	0.0093		ND	0.21	0.702	6/13/15 0:38	TPH
1,3-Dichlorobenzene	ND	0.035	0.0078		ND	0.21	0.702	6/13/15 0:38	TPH
1,4-Dichlorobenzene	ND	0.035	0.0088		ND	0.21	0.702	6/13/15 0:38	TPH
Dichlorodifluoromethane (Freon 12)	0.47	0.035	0.015		2.3	0.17	0.702	6/13/15 0:38	TPH
1,1-Dichloroethane	ND	0.035	0.0099		ND	0.14	0.702	6/13/15 0:38	TPH
1,2-Dichloroethane	0.013	0.035	0.0098	J	0.054	0.14	0.702	6/13/15 0:38	TPH
1,1-Dichloroethylene	ND	0.035	0.0086		ND	0.14	0.702	6/13/15 0:38	TPH
cis-1,2-Dichloroethylene	ND	0.035	0.013		ND	0.14	0.702	6/13/15 0:38	TPH
trans-1,2-Dichloroethylene	ND	0.035	0.0093		ND	0.14	0.702	6/13/15 0:38	TPH
1,2-Dichloropropane	ND	0.035	0.012		ND	0.16	0.702	6/13/15 0:38	TPH
cis-1,3-Dichloropropene	ND	0.035	0.0093		ND	0.16	0.702	6/13/15 0:38	TPH
trans-1,3-Dichloropropene	ND	0.035	0.0094		ND	0.16	0.702	6/13/15 0:38	TPH
Ethanol	2.6	1.4	0.63		4.8	2.6	0.702	6/13/15 0:38	TPH
Ethyl Acetate	ND	0.035	0.026		ND	0.13	0.702	6/13/15 0:38	TPH
Ethylbenzene	0.024	0.035	0.0097	J	0.10	0.15	0.702	6/13/15 0:38	TPH
4-Ethyltoluene	ND	0.035	0.0079		ND	0.17	0.702	6/13/15 0:38	TPH
Heptane	ND	0.035	0.011		ND	0.14	0.702	6/13/15 0:38	TPH
Hexachlorobutadiene	ND	0.035	0.013		ND	0.37	0.702	6/13/15 0:38	TPH
Hexane	0.084	1.4	0.062	J	0.29	4.9	0.702	6/13/15 0:38	TPH
2-Hexanone (MBK)	0.041	0.035	0.0090		0.17	0.14	0.702	6/13/15 0:38	TPH
Isopropanol	0.18	1.4	0.043	L-03, V-05, J	0.44	3.4	0.702	6/13/15 0:38	TPH

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: 6/11/2015
Field Sample #: AA-1-061115
Sample ID: 15F0576-08
Sample Matrix: Ambient Air
Sampled: 6/11/2015 10:59

Sample Description/Location:
Sub Description/Location:
Canister ID: 1621
Canister Size: 6 liter
Flow Controller ID: 4067
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -30
Final Vacuum(in Hg): -3
Receipt Vacuum(in Hg): -2.8
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	0.011		ND	0.13	0.702	6/13/15 0:38	TPH
Methylene Chloride	0.14	0.35	0.043	J	0.47	1.2	0.702	6/13/15 0:38	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.0084		ND	0.14	0.702	6/13/15 0:38	TPH
Propene	ND	1.4	0.11		ND	2.4	0.702	6/13/15 0:38	TPH
Styrene	ND	0.035	0.0068	L-03	ND	0.15	0.702	6/13/15 0:38	TPH
1,1,1,2-Tetrachloroethane	ND	0.064	0.023		ND	0.44	0.702	6/13/15 0:38	TPH
1,1,2,2-Tetrachloroethane	ND	0.035	0.0084		ND	0.24	0.702	6/13/15 0:38	TPH
Tetrachloroethylene	0.043	0.035	0.010		0.29	0.24	0.702	6/13/15 0:38	TPH
Tetrahydrofuran	ND	0.035	0.015		ND	0.10	0.702	6/13/15 0:38	TPH
Toluene	0.14	0.035	0.011		0.51	0.13	0.702	6/13/15 0:38	TPH
1,2,4-Trichlorobenzene	ND	0.035	0.013		ND	0.26	0.702	6/13/15 0:38	TPH
1,1,1-Trichloroethane	ND	0.035	0.0063		ND	0.19	0.702	6/13/15 0:38	TPH
1,1,2-Trichloroethane	ND	0.035	0.011		ND	0.19	0.702	6/13/15 0:38	TPH
Trichloroethylene	ND	0.035	0.010		ND	0.19	0.702	6/13/15 0:38	TPH
Trichlorofluoromethane (Freon 11)	0.27	0.14	0.012		1.5	0.79	0.702	6/13/15 0:38	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.14	0.0098	J	0.65	1.1	0.702	6/13/15 0:38	TPH
1,2,4-Trimethylbenzene	0.012	0.035	0.0086	J	0.059	0.17	0.702	6/13/15 0:38	TPH
1,3,5-Trimethylbenzene	ND	0.035	0.0070		ND	0.17	0.702	6/13/15 0:38	TPH
Vinyl Acetate	ND	0.70	0.018		ND	2.5	0.702	6/13/15 0:38	TPH
Vinyl Chloride	ND	0.035	0.015		ND	0.090	0.702	6/13/15 0:38	TPH
m&p-Xylene	0.056	0.070	0.018	J	0.24	0.30	0.702	6/13/15 0:38	TPH
o-Xylene	0.025	0.035	0.010	J	0.11	0.15	0.702	6/13/15 0:38	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	116	70-130	6/13/15 0:38
4-Bromofluorobenzene (2)	101	70-130	6/13/15 0:38

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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: 6/11/2015
Field Sample #: EW-5-061115
Sample ID: 15F0576-09
Sample Matrix: Sub Slab
Sampled: 6/11/2015 08:22

Sample Description/Location:
Sub Description/Location:
Canister ID: 1031
Canister Size: 6 liter
Flow Controller ID: 4076
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.6
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	8.8	4.0	1.4	V-05	21	9.5	2	6/13/15 2:00	TPH
Benzene	0.11	0.10	0.052		0.35	0.32	2	6/13/15 2:00	TPH
Benzyl chloride	ND	0.10	0.019	V-05	ND	0.52	2	6/13/15 2:00	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	2	6/13/15 2:00	TPH
Bromoform	ND	0.10	0.019		ND	1.0	2	6/13/15 2:00	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	2	6/13/15 2:00	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	2	6/13/15 2:00	TPH
2-Butanone (MEK)	3.1	4.0	0.075	J	9.1	12	2	6/13/15 2:00	TPH
Carbon Disulfide	0.31	1.0	0.034	J	0.98	3.1	2	6/13/15 2:00	TPH
Carbon Tetrachloride	0.052	0.10	0.024	J	0.33	0.63	2	6/13/15 2:00	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	2	6/13/15 2:00	TPH
Chloroethane	ND	0.10	0.038		ND	0.26	2	6/13/15 2:00	TPH
Chloroform	0.034	0.10	0.023	J	0.17	0.49	2	6/13/15 2:00	TPH
Chloromethane	ND	0.20	0.044		ND	0.41	2	6/13/15 2:00	TPH
Cyclohexane	ND	0.10	0.057		ND	0.34	2	6/13/15 2:00	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	2	6/13/15 2:00	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	2	6/13/15 2:00	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	2	6/13/15 2:00	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	2	6/13/15 2:00	TPH
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	2	6/13/15 2:00	TPH
Dichlorodifluoromethane (Freon 12)	0.67	0.10	0.043		3.3	0.49	2	6/13/15 2:00	TPH
1,1-Dichloroethane	ND	0.10	0.028		ND	0.40	2	6/13/15 2:00	TPH
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	2	6/13/15 2:00	TPH
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	6/13/15 2:00	TPH
cis-1,2-Dichloroethylene	ND	0.10	0.038		ND	0.40	2	6/13/15 2:00	TPH
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	6/13/15 2:00	TPH
1,2-Dichloropropane	ND	0.10	0.035		ND	0.46	2	6/13/15 2:00	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 2:00	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 2:00	TPH
Ethanol	7.8	4.0	1.8		15	7.5	2	6/13/15 2:00	TPH
Ethyl Acetate	ND	0.10	0.075		ND	0.36	2	6/13/15 2:00	TPH
Ethylbenzene	0.034	0.10	0.028	J	0.15	0.43	2	6/13/15 2:00	TPH
4-Ethyltoluene	ND	0.10	0.023		ND	0.49	2	6/13/15 2:00	TPH
Heptane	ND	0.10	0.032		ND	0.41	2	6/13/15 2:00	TPH
Hexachlorobutadiene	ND	0.10	0.038		ND	1.1	2	6/13/15 2:00	TPH
Hexane	0.38	4.0	0.18	J	1.4	14	2	6/13/15 2:00	TPH
2-Hexanone (MBK)	0.084	0.10	0.026	J	0.34	0.41	2	6/13/15 2:00	TPH
Isopropanol	ND	4.0	0.12	L-03, V-05	ND	9.8	2	6/13/15 2:00	TPH

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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: 6/11/2015
Field Sample #: EW-5-061115
Sample ID: 15F0576-09
Sample Matrix: Sub Slab
Sampled: 6/11/2015 08:22

Sample Description/Location:
Sub Description/Location:
Canister ID: 1031
Canister Size: 6 liter
Flow Controller ID: 4076
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -4
Receipt Vacuum(in Hg): -4.6
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	0.10	0.031		ND	0.36	2	6/13/15 2:00	TPH
Methylene Chloride	0.54	1.0	0.12	J	1.9	3.5	2	6/13/15 2:00	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	2	6/13/15 2:00	TPH
Propene	ND	4.0	0.31		ND	6.9	2	6/13/15 2:00	TPH
Styrene	ND	0.10	0.019	L-03	ND	0.43	2	6/13/15 2:00	TPH
1,1,1,2-Tetrachloroethane	ND	0.18	0.066		ND	1.2	2	6/13/15 2:00	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024		ND	0.69	2	6/13/15 2:00	TPH
Tetrachloroethylene	0.036	0.10	0.028	J	0.24	0.68	2	6/13/15 2:00	TPH
Tetrahydrofuran	0.63	0.10	0.042		1.9	0.29	2	6/13/15 2:00	TPH
Toluene	0.22	0.10	0.031		0.83	0.38	2	6/13/15 2:00	TPH
1,2,4-Trichlorobenzene	ND	0.10	0.038		ND	0.74	2	6/13/15 2:00	TPH
1,1,1-Trichloroethane	0.034	0.10	0.018	J	0.19	0.55	2	6/13/15 2:00	TPH
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	2	6/13/15 2:00	TPH
Trichloroethylene	ND	0.10	0.030		ND	0.54	2	6/13/15 2:00	TPH
Trichlorofluoromethane (Freon 11)	0.30	0.40	0.035	J	1.7	2.2	2	6/13/15 2:00	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.084	0.40	0.028	J	0.64	3.1	2	6/13/15 2:00	TPH
1,2,4-Trimethylbenzene	0.044	0.10	0.025	J	0.22	0.49	2	6/13/15 2:00	TPH
1,3,5-Trimethylbenzene	0.022	0.10	0.020	J	0.11	0.49	2	6/13/15 2:00	TPH
Vinyl Acetate	ND	2.0	0.051		ND	7.0	2	6/13/15 2:00	TPH
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	6/13/15 2:00	TPH
m&p-Xylene	0.12	0.20	0.050	J	0.54	0.87	2	6/13/15 2:00	TPH
o-Xylene	0.058	0.10	0.029	J	0.25	0.43	2	6/13/15 2:00	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/13/15 2:00
4-Bromofluorobenzene (2)	101	70-130	6/13/15 2:00

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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: 6/11/2015
Field Sample #: EW-6-061115
Sample ID: 15F0576-10
Sample Matrix: Sub Slab
Sampled: 6/11/2015 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1848
Canister Size: 6 liter
Flow Controller ID: 4086
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -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	15	4.0	1.4	V-05	35	9.5	2	6/13/15 2:38	TPH
Benzene	0.17	0.10	0.052		0.56	0.32	2	6/13/15 2:38	TPH
Benzyl chloride	ND	0.10	0.019	V-05	ND	0.52	2	6/13/15 2:38	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	2	6/13/15 2:38	TPH
Bromoform	ND	0.10	0.019		ND	1.0	2	6/13/15 2:38	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	2	6/13/15 2:38	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	2	6/13/15 2:38	TPH
2-Butanone (MEK)	4.3	4.0	0.075		13	12	2	6/13/15 2:38	TPH
Carbon Disulfide	4.4	1.0	0.034		14	3.1	2	6/13/15 2:38	TPH
Carbon Tetrachloride	0.058	0.10	0.024	J	0.36	0.63	2	6/13/15 2:38	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	2	6/13/15 2:38	TPH
Chloroethane	ND	0.10	0.038		ND	0.26	2	6/13/15 2:38	TPH
Chloroform	0.092	0.10	0.023	J	0.45	0.49	2	6/13/15 2:38	TPH
Chloromethane	1.7	0.20	0.044		3.6	0.41	2	6/13/15 2:38	TPH
Cyclohexane	ND	0.10	0.057		ND	0.34	2	6/13/15 2:38	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	2	6/13/15 2:38	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	2	6/13/15 2:38	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	2	6/13/15 2:38	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	2	6/13/15 2:38	TPH
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	2	6/13/15 2:38	TPH
Dichlorodifluoromethane (Freon 12)	0.56	0.10	0.043		2.7	0.49	2	6/13/15 2:38	TPH
1,1-Dichloroethane	0.62	0.10	0.028		2.5	0.40	2	6/13/15 2:38	TPH
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	2	6/13/15 2:38	TPH
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	6/13/15 2:38	TPH
cis-1,2-Dichloroethylene	0.062	0.10	0.038	J	0.25	0.40	2	6/13/15 2:38	TPH
trans-1,2-Dichloroethylene	ND	0.10	0.026		ND	0.40	2	6/13/15 2:38	TPH
1,2-Dichloropropane	ND	0.10	0.035		ND	0.46	2	6/13/15 2:38	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 2:38	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 2:38	TPH
Ethanol	14	4.0	1.8		27	7.5	2	6/13/15 2:38	TPH
Ethyl Acetate	ND	0.10	0.075		ND	0.36	2	6/13/15 2:38	TPH
Ethylbenzene	ND	0.10	0.028		ND	0.43	2	6/13/15 2:38	TPH
4-Ethyltoluene	0.024	0.10	0.023	J	0.12	0.49	2	6/13/15 2:38	TPH
Heptane	ND	0.10	0.032		ND	0.41	2	6/13/15 2:38	TPH
Hexachlorobutadiene	ND	0.10	0.038		ND	1.1	2	6/13/15 2:38	TPH
Hexane	ND	4.0	0.18		ND	14	2	6/13/15 2:38	TPH
2-Hexanone (MBK)	0.044	0.10	0.026	J	0.18	0.41	2	6/13/15 2:38	TPH
Isopropanol	2.0	4.0	0.12	L-03, V-05, J	5.0	9.8	2	6/13/15 2:38	TPH

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ANALYTICAL RESULTS

Project Location: Providence, RI
Date Received: 6/11/2015
Field Sample #: EW-6-061115
Sample ID: 15F0576-10
Sample Matrix: Sub Slab
Sampled: 6/11/2015 09:40

Sample Description/Location:
Sub Description/Location:
Canister ID: 1848
Canister Size: 6 liter
Flow Controller ID: 4086
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -7
Receipt Vacuum(in Hg): -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	0.10	0.031		ND	0.36	2	6/13/15 2:38	TPH
Methylene Chloride	ND	1.0	0.12		ND	3.5	2	6/13/15 2:38	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	2	6/13/15 2:38	TPH
Propene	ND	4.0	0.31		ND	6.9	2	6/13/15 2:38	TPH
Styrene	0.022	0.10	0.019	L-03, J	0.094	0.43	2	6/13/15 2:38	TPH
1,1,1,2-Tetrachloroethane	ND	0.18	0.066		ND	1.2	2	6/13/15 2:38	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024		ND	0.69	2	6/13/15 2:38	TPH
Tetrachloroethylene	0.16	0.10	0.028		1.1	0.68	2	6/13/15 2:38	TPH
Tetrahydrofuran	200	2.0	0.84		600	5.9	40	6/12/15 17:02	TPH
Toluene	0.17	0.10	0.031		0.66	0.38	2	6/13/15 2:38	TPH
1,2,4-Trichlorobenzene	ND	0.10	0.038		ND	0.74	2	6/13/15 2:38	TPH
1,1,1-Trichloroethane	2.4	0.10	0.018		13	0.55	2	6/13/15 2:38	TPH
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	2	6/13/15 2:38	TPH
Trichloroethylene	4.6	0.10	0.030		25	0.54	2	6/13/15 2:38	TPH
Trichlorofluoromethane (Freon 11)	2.1	0.40	0.035		12	2.2	2	6/13/15 2:38	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.076	0.40	0.028	J	0.58	3.1	2	6/13/15 2:38	TPH
1,2,4-Trimethylbenzene	0.048	0.10	0.025	J	0.24	0.49	2	6/13/15 2:38	TPH
1,3,5-Trimethylbenzene	ND	0.10	0.020		ND	0.49	2	6/13/15 2:38	TPH
Vinyl Acetate	ND	2.0	0.051		ND	7.0	2	6/13/15 2:38	TPH
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	6/13/15 2:38	TPH
m&p-Xylene	0.068	0.20	0.050	J	0.30	0.87	2	6/13/15 2:38	TPH
o-Xylene	ND	0.10	0.029		ND	0.43	2	6/13/15 2:38	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/12/15 17:02
4-Bromofluorobenzene (1)	118	70-130	6/13/15 2:38
4-Bromofluorobenzene (2)	102	70-130	6/13/15 2:38

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: 6/11/2015
Field Sample #: EW-7-061115
Sample ID: 15F0576-11
Sample Matrix: Sub Slab
Sampled: 6/11/2015 10:01

Sample Description/Location:
Sub Description/Location:
Canister ID: 1826
Canister Size: 6 liter
Flow Controller ID: 4089
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -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	3.1	4.0	1.4	V-05, J	7.4	9.5	2	6/13/15 3:17	TPH
Benzene	0.71	0.10	0.052		2.3	0.32	2	6/13/15 3:17	TPH
Benzyl chloride	ND	0.10	0.019	V-05	ND	0.52	2	6/13/15 3:17	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	2	6/13/15 3:17	TPH
Bromoform	ND	0.10	0.019		ND	1.0	2	6/13/15 3:17	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	2	6/13/15 3:17	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	2	6/13/15 3:17	TPH
2-Butanone (MEK)	2.8	4.0	0.075	J	8.3	12	2	6/13/15 3:17	TPH
Carbon Disulfide	5.1	1.0	0.034		16	3.1	2	6/13/15 3:17	TPH
Carbon Tetrachloride	0.052	0.10	0.024	J	0.33	0.63	2	6/13/15 3:17	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	2	6/13/15 3:17	TPH
Chloroethane	0.48	0.10	0.038		1.3	0.26	2	6/13/15 3:17	TPH
Chloroform	0.53	0.10	0.023		2.6	0.49	2	6/13/15 3:17	TPH
Chloromethane	ND	0.20	0.044		ND	0.41	2	6/13/15 3:17	TPH
Cyclohexane	ND	0.10	0.057		ND	0.34	2	6/13/15 3:17	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	2	6/13/15 3:17	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	2	6/13/15 3:17	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	2	6/13/15 3:17	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	2	6/13/15 3:17	TPH
1,4-Dichlorobenzene	0.028	0.10	0.025	J	0.17	0.60	2	6/13/15 3:17	TPH
Dichlorodifluoromethane (Freon 12)	0.46	0.10	0.043		2.3	0.49	2	6/13/15 3:17	TPH
1,1-Dichloroethane	0.93	0.10	0.028		3.7	0.40	2	6/13/15 3:17	TPH
1,2-Dichloroethane	0.040	0.10	0.028	J	0.16	0.40	2	6/13/15 3:17	TPH
1,1-Dichloroethylene	ND	0.10	0.024		ND	0.40	2	6/13/15 3:17	TPH
cis-1,2-Dichloroethylene	0.63	0.10	0.038		2.5	0.40	2	6/13/15 3:17	TPH
trans-1,2-Dichloroethylene	1.2	0.10	0.026		4.9	0.40	2	6/13/15 3:17	TPH
1,2-Dichloropropane	ND	0.10	0.035		ND	0.46	2	6/13/15 3:17	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 3:17	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 3:17	TPH
Ethanol	22	4.0	1.8		42	7.5	2	6/13/15 3:17	TPH
Ethyl Acetate	ND	0.10	0.075		ND	0.36	2	6/13/15 3:17	TPH
Ethylbenzene	0.052	0.10	0.028	J	0.23	0.43	2	6/13/15 3:17	TPH
4-Ethyltoluene	0.024	0.10	0.023	J	0.12	0.49	2	6/13/15 3:17	TPH
Heptane	0.036	0.10	0.032	J	0.15	0.41	2	6/13/15 3:17	TPH
Hexachlorobutadiene	ND	0.10	0.038		ND	1.1	2	6/13/15 3:17	TPH
Hexane	ND	4.0	0.18		ND	14	2	6/13/15 3:17	TPH
2-Hexanone (MBK)	0.092	0.10	0.026	J	0.38	0.41	2	6/13/15 3:17	TPH
Isopropanol	2.7	4.0	0.12	L-03, V-05, J	6.6	9.8	2	6/13/15 3:17	TPH

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: 6/11/2015
Field Sample #: EW-7-061115
Sample ID: 15F0576-11
Sample Matrix: Sub Slab
Sampled: 6/11/2015 10:01

Sample Description/Location:
Sub Description/Location:
Canister ID: 1826
Canister Size: 6 liter
Flow Controller ID: 4089
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -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	0.10	0.031		ND	0.36	2	6/13/15 3:17	TPH
Methylene Chloride	ND	1.0	0.12		ND	3.5	2	6/13/15 3:17	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	2	6/13/15 3:17	TPH
Propene	0.92	4.0	0.31	J	1.6	6.9	2	6/13/15 3:17	TPH
Styrene	0.11	0.10	0.019	L-03	0.46	0.43	2	6/13/15 3:17	TPH
1,1,1,2-Tetrachloroethane	ND	0.18	0.066		ND	1.2	2	6/13/15 3:17	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024		ND	0.69	2	6/13/15 3:17	TPH
Tetrachloroethylene	13	0.10	0.028		89	0.68	2	6/13/15 3:17	TPH
Tetrahydrofuran	240	2.0	0.84		720	5.9	40	6/12/15 17:37	TPH
Toluene	0.26	0.10	0.031		0.99	0.38	2	6/13/15 3:17	TPH
1,2,4-Trichlorobenzene	ND	0.10	0.038		ND	0.74	2	6/13/15 3:17	TPH
1,1,1-Trichloroethane	2.6	0.10	0.018		14	0.55	2	6/13/15 3:17	TPH
1,1,2-Trichloroethane	ND	0.10	0.030		ND	0.55	2	6/13/15 3:17	TPH
Trichloroethylene	31	0.10	0.030		170	0.54	2	6/13/15 3:17	TPH
Trichlorofluoromethane (Freon 11)	60	0.40	0.035		340	2.2	2	6/13/15 3:17	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.096	0.40	0.028	J	0.74	3.1	2	6/13/15 3:17	TPH
1,2,4-Trimethylbenzene	0.090	0.10	0.025	J	0.44	0.49	2	6/13/15 3:17	TPH
1,3,5-Trimethylbenzene	0.046	0.10	0.020	J	0.23	0.49	2	6/13/15 3:17	TPH
Vinyl Acetate	ND	2.0	0.051		ND	7.0	2	6/13/15 3:17	TPH
Vinyl Chloride	0.56	0.10	0.043		1.4	0.26	2	6/13/15 3:17	TPH
m&p-Xylene	0.12	0.20	0.050	J	0.50	0.87	2	6/13/15 3:17	TPH
o-Xylene	0.050	0.10	0.029	J	0.22	0.43	2	6/13/15 3:17	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	117	70-130	6/12/15 17:37
4-Bromofluorobenzene (1)	122	70-130	6/13/15 3:17
4-Bromofluorobenzene (2)	104	70-130	6/13/15 3:17

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: 6/11/2015
Field Sample #: EW-Combined-061115
Sample ID: 15F0576-12
Sample Matrix: Sub Slab
Sampled: 6/11/2015 10:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1314
Canister Size: 6 liter
Flow Controller ID: 4066
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.8
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	ND	4.0	1.4	V-05	ND	9.5	2	6/13/15 3:55	TPH
Benzene	0.11	0.10	0.052		0.36	0.32	2	6/13/15 3:55	TPH
Benzyl chloride	ND	0.10	0.019	V-05	ND	0.52	2	6/13/15 3:55	TPH
Bromodichloromethane	ND	0.10	0.022		ND	0.67	2	6/13/15 3:55	TPH
Bromoform	ND	0.10	0.019		ND	1.0	2	6/13/15 3:55	TPH
Bromomethane	ND	0.10	0.069		ND	0.39	2	6/13/15 3:55	TPH
1,3-Butadiene	ND	0.10	0.051		ND	0.22	2	6/13/15 3:55	TPH
2-Butanone (MEK)	0.40	4.0	0.075	J	1.2	12	2	6/13/15 3:55	TPH
Carbon Disulfide	0.12	1.0	0.034	J	0.37	3.1	2	6/13/15 3:55	TPH
Carbon Tetrachloride	0.078	0.10	0.024	J	0.49	0.63	2	6/13/15 3:55	TPH
Chlorobenzene	ND	0.10	0.035		ND	0.46	2	6/13/15 3:55	TPH
Chloroethane	0.39	0.10	0.038		1.0	0.26	2	6/13/15 3:55	TPH
Chloroform	1.3	0.10	0.023		6.4	0.49	2	6/13/15 3:55	TPH
Chloromethane	ND	0.20	0.044		ND	0.41	2	6/13/15 3:55	TPH
Cyclohexane	ND	0.10	0.057		ND	0.34	2	6/13/15 3:55	TPH
Dibromochloromethane	ND	0.10	0.027		ND	0.85	2	6/13/15 3:55	TPH
1,2-Dibromoethane (EDB)	ND	0.10	0.022		ND	0.77	2	6/13/15 3:55	TPH
1,2-Dichlorobenzene	ND	0.10	0.027		ND	0.60	2	6/13/15 3:55	TPH
1,3-Dichlorobenzene	ND	0.10	0.022		ND	0.60	2	6/13/15 3:55	TPH
1,4-Dichlorobenzene	ND	0.10	0.025		ND	0.60	2	6/13/15 3:55	TPH
Dichlorodifluoromethane (Freon 12)	0.58	0.10	0.043		2.9	0.49	2	6/13/15 3:55	TPH
1,1-Dichloroethane	26	0.10	0.028		100	0.40	2	6/13/15 3:55	TPH
1,2-Dichloroethane	ND	0.10	0.028		ND	0.40	2	6/13/15 3:55	TPH
1,1-Dichloroethylene	12	0.10	0.024		46	0.40	2	6/13/15 3:55	TPH
cis-1,2-Dichloroethylene	13	0.10	0.038		52	0.40	2	6/13/15 3:55	TPH
trans-1,2-Dichloroethylene	0.29	0.10	0.026		1.1	0.40	2	6/13/15 3:55	TPH
1,2-Dichloropropane	ND	0.10	0.035		ND	0.46	2	6/13/15 3:55	TPH
cis-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 3:55	TPH
trans-1,3-Dichloropropene	ND	0.10	0.027		ND	0.45	2	6/13/15 3:55	TPH
Ethanol	2.7	4.0	1.8	J	5.1	7.5	2	6/13/15 3:55	TPH
Ethyl Acetate	0.37	0.10	0.075		1.3	0.36	2	6/13/15 3:55	TPH
Ethylbenzene	ND	0.10	0.028		ND	0.43	2	6/13/15 3:55	TPH
4-Ethyltoluene	ND	0.10	0.023		ND	0.49	2	6/13/15 3:55	TPH
Heptane	ND	0.10	0.032		ND	0.41	2	6/13/15 3:55	TPH
Hexachlorobutadiene	ND	0.10	0.038		ND	1.1	2	6/13/15 3:55	TPH
Hexane	ND	4.0	0.18		ND	14	2	6/13/15 3:55	TPH
2-Hexanone (MBK)	ND	0.10	0.026		ND	0.41	2	6/13/15 3:55	TPH
Isopropanol	1.6	4.0	0.12	L-03, V-05, J	3.8	9.8	2	6/13/15 3:55	TPH

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: 6/11/2015
Field Sample #: EW-Combined-061115
Sample ID: 15F0576-12
Sample Matrix: Sub Slab
Sampled: 6/11/2015 10:57

Sample Description/Location:
Sub Description/Location:
Canister ID: 1314
Canister Size: 6 liter
Flow Controller ID: 4066
Sample Type: 30 min

Work Order: 15F0576
Initial Vacuum(in Hg): -26
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.8
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)	0.056	0.10	0.031	J	0.20	0.36	2	6/13/15 3:55	TPH
Methylene Chloride	ND	1.0	0.12		ND	3.5	2	6/13/15 3:55	TPH
4-Methyl-2-pentanone (MIBK)	ND	0.10	0.024		ND	0.41	2	6/13/15 3:55	TPH
Propene	ND	4.0	0.31		ND	6.9	2	6/13/15 3:55	TPH
Styrene	ND	0.10	0.019	L-03	ND	0.43	2	6/13/15 3:55	TPH
1,1,1,2-Tetrachloroethane	ND	0.18	0.066		ND	1.2	2	6/13/15 3:55	TPH
1,1,2,2-Tetrachloroethane	ND	0.10	0.024		ND	0.69	2	6/13/15 3:55	TPH
Tetrachloroethylene	210	2.0	0.57		1400	14	40	6/12/15 18:12	TPH
Tetrahydrofuran	0.22	0.10	0.042		0.65	0.29	2	6/13/15 3:55	TPH
Toluene	0.040	0.10	0.031	J	0.15	0.38	2	6/13/15 3:55	TPH
1,2,4-Trichlorobenzene	ND	0.10	0.038		ND	0.74	2	6/13/15 3:55	TPH
1,1,1-Trichloroethane	220	2.0	0.36		1200	11	40	6/12/15 18:12	TPH
1,1,2-Trichloroethane	0.052	0.10	0.030	J	0.28	0.55	2	6/13/15 3:55	TPH
Trichloroethylene	250	2.0	0.59		1300	11	40	6/12/15 18:12	TPH
Trichlorofluoromethane (Freon 11)	30	0.40	0.035		170	2.2	2	6/13/15 3:55	TPH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.12	0.40	0.028	J	0.89	3.1	2	6/13/15 3:55	TPH
1,2,4-Trimethylbenzene	ND	0.10	0.025		ND	0.49	2	6/13/15 3:55	TPH
1,3,5-Trimethylbenzene	ND	0.10	0.020		ND	0.49	2	6/13/15 3:55	TPH
Vinyl Acetate	ND	2.0	0.051		ND	7.0	2	6/13/15 3:55	TPH
Vinyl Chloride	ND	0.10	0.043		ND	0.26	2	6/13/15 3:55	TPH
m&p-Xylene	ND	0.20	0.050		ND	0.87	2	6/13/15 3:55	TPH
o-Xylene	ND	0.10	0.029		ND	0.43	2	6/13/15 3:55	TPH

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	115	70-130	6/12/15 18:12
4-Bromofluorobenzene (1)	115	70-130	6/13/15 3:55
4-Bromofluorobenzene (2)	99.4	70-130	6/13/15 3:55

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

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
15F0576-01 [IA-1-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-02 [IA-2-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-03 [IA-3-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-04 [IA-4-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-05 [IA-5-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-06 [IA-6-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-07 [IA-7-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-08 [AA-1-061115]	B124342	1.5	1	N/A	1000	400	855	06/12/15
15F0576-09 [EW-5-061115]	B124342	1.5	1	N/A	1000	400	300	06/12/15
15F0576-10 [EW-6-061115]	B124342	1.5	1	N/A	1000	400	300	06/12/15
15F0576-10RE1 [EW-6-061115]	B124342	1.5	1	N/A	1000	400	15	06/12/15
15F0576-11 [EW-7-061115]	B124342	1.5	1	N/A	1000	400	300	06/12/15
15F0576-11RE1 [EW-7-061115]	B124342	1.5	1	N/A	1000	400	15	06/12/15
15F0576-12 [EW-Combined-061115]	B124342	1.5	1	N/A	1000	400	300	06/12/15
15F0576-12RE1 [EW-Combined-061115]	B124342	1.5	1	N/A	1000	400	15	06/12/15

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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 B124342 - TO-15 Prep											
Blank (B124342-BLK1)					Prepared & Analyzed: 06/12/15						
Acetone	ND	1.0									V-05
Benzene	ND	0.025									
Benzyl chloride	ND	0.025									V-05
Bromodichloromethane	ND	0.025									
Bromoform	ND	0.025									
Bromomethane	ND	0.025									
1,3-Butadiene	ND	0.025									
2-Butanone (MEK)	ND	1.0									
Carbon Disulfide	ND	0.25									
Carbon Tetrachloride	ND	0.025									
Chlorobenzene	ND	0.025									
Chloroethane	ND	0.025									
Chloroform	ND	0.025									
Chloromethane	ND	0.050									
Cyclohexane	ND	0.025									
Dibromochloromethane	ND	0.025									
1,2-Dibromoethane (EDB)	ND	0.025									
1,2-Dichlorobenzene	ND	0.025									
1,3-Dichlorobenzene	ND	0.025									
1,4-Dichlorobenzene	ND	0.025									
Dichlorodifluoromethane (Freon 12)	ND	0.025									
1,1-Dichloroethane	ND	0.025									
1,2-Dichloroethane	ND	0.025									
1,1-Dichloroethylene	ND	0.025									
cis-1,2-Dichloroethylene	ND	0.025									
trans-1,2-Dichloroethylene	ND	0.025									
1,2-Dichloropropane	ND	0.025									
cis-1,3-Dichloropropene	ND	0.025									
trans-1,3-Dichloropropene	ND	0.025									
Ethanol	ND	1.0									
Ethyl Acetate	ND	0.025									
Ethylbenzene	ND	0.025									
4-Ethyltoluene	ND	0.025									
Heptane	ND	0.025									
Hexachlorobutadiene	ND	0.025									
Hexane	ND	1.0									
2-Hexanone (MBK)	ND	0.025									
Isopropanol	ND	1.0									L-03, V-05
Methyl tert-Butyl Ether (MTBE)	ND	0.025									
Methylene Chloride	ND	0.25									
Methyl methacrylate	ND	0.025									
4-Methyl-2-pentanone (MIBK)	ND	0.025									
Propene	ND	1.0									
Styrene	ND	0.025									L-03
1,1,1,2-Tetrachloroethane	ND	0.046									
1,1,2,2-Tetrachloroethane	ND	0.025									

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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 B124342 - TO-15 Prep												
Blank (B124342-BLK1)					Prepared & Analyzed: 06/12/15							
Tetrachloroethylene	ND	0.025										
Tetrahydrofuran	ND	0.025										
Toluene	ND	0.025										
1,2,4-Trichlorobenzene	ND	0.025										
1,1,1-Trichloroethane	ND	0.025										
1,1,2-Trichloroethane	ND	0.025										
Trichloroethylene	ND	0.025										
Trichlorofluoromethane (Freon 11)	ND	0.10										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10										
1,2,4-Trimethylbenzene	ND	0.025										
1,3,5-Trimethylbenzene	ND	0.025										
Vinyl Acetate	ND	0.50										
Vinyl Chloride	ND	0.025										
m&p-Xylene	ND	0.050										
o-Xylene	ND	0.025										
Surrogate: 4-Bromofluorobenzene (1)	*9.39*				*8.00*		*117*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.00*				*8.00*		*99.9*		*70-130*			
LCS (B124342-BS1)					Prepared & Analyzed: 06/12/15							
Acetone	4.51				5.00		90.2		70-130			V-05
Benzene	4.10				5.00		82.0		70-130			
Benzyl chloride	3.69				5.00		73.9		70-130			V-05
Bromodichloromethane	4.03				5.00		80.6		70-130			
Bromoform	6.82				5.00		**136**	*	70-130			L-01
Bromomethane	6.32				5.00		126		70-130			
1,3-Butadiene	4.97				5.00		99.4		70-130			
2-Butanone (MEK)	5.05				5.00		101		70-130			
Carbon Disulfide	4.29				5.00		85.8		70-130			
Carbon Tetrachloride	4.16				5.00		83.3		70-130			
Chlorobenzene	6.08				5.00		122		70-130			
Chloroethane	5.55				5.00		111		70-130			
Chloroform	5.05				5.00		101		70-130			
Chloromethane	4.19				5.00		83.8		70-130			
Cyclohexane	3.86				5.00		77.2		70-130			
Dibromochloromethane	6.30				5.00		126		70-130			
1,2-Dibromoethane (EDB)	5.78				5.00		116		70-130			
1,2-Dichlorobenzene	6.28				5.00		126		70-130			
1,3-Dichlorobenzene	6.54				5.00		**131**	*	70-130			L-01
1,4-Dichlorobenzene	6.48				5.00		130		70-130			
Dichlorodifluoromethane (Freon 12)	5.91				5.00		118		70-130			
1,1-Dichloroethane	4.46				5.00		89.2		70-130			
1,2-Dichloroethane	4.56				5.00		91.2		70-130			
1,1-Dichloroethylene	4.66				5.00		93.3		70-130			
cis-1,2-Dichloroethylene	4.52				5.00		90.5		70-130			
trans-1,2-Dichloroethylene	4.20				5.00		84.0		70-130			
1,2-Dichloropropane	3.76				5.00		75.2		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 B124342 - TO-15 Prep												
LCS (B124342-BS1)					Prepared & Analyzed: 06/12/15							
cis-1,3-Dichloropropene	3.89				5.00		77.7		70-130			
trans-1,3-Dichloropropene	3.96				5.00		79.2		70-130			
Ethanol	6.36				5.00		127		70-130			
Ethyl Acetate	6.19				5.00		124		70-130			
Ethylbenzene	5.94				5.00		119		70-130			
4-Ethyltoluene	5.43				5.00		109		70-130			
Heptane	4.32				5.00		86.3		70-130			
Hexachlorobutadiene	6.75				5.00		**135**	*	70-130			L-01, V-06
Hexane	5.36				5.00		107		70-130			
2-Hexanone (MBK)	4.57				5.00		91.4		70-130			
Isopropanol	2.58				5.00		**51.6**	*	70-130			L-03, V-05
Methyl tert-Butyl Ether (MTBE)	4.32				5.00		86.5		70-130			
Methylene Chloride	4.79				5.00		95.8		70-130			
Methyl methacrylate	3.77				5.00		75.3		70-130			
4-Methyl-2-pentanone (MIBK)	3.91				5.00		78.2		70-130			
Propene	5.98				5.00		120		70-130			
Styrene	2.50				5.00		**50.1**	*	70-130			L-03
1,1,1,2-Tetrachloroethane	0.971				0.910		107		70-130			
1,1,2,2-Tetrachloroethane	5.58				5.00		112		70-130			
Tetrachloroethylene	6.21				5.00		124		70-130			
Tetrahydrofuran	4.79				5.00		95.8		70-130			
Toluene	5.66				5.00		113		70-130			
1,2,4-Trichlorobenzene	6.30				5.00		126		70-130			V-06
1,1,1-Trichloroethane	3.91				5.00		78.2		70-130			
1,1,2-Trichloroethane	5.53				5.00		111		70-130			
Trichloroethylene	4.09				5.00		81.9		70-130			
Trichlorofluoromethane (Freon 11)	5.29				5.00		106		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.41				5.00		108		70-130			
1,2,4-Trimethylbenzene	4.70				5.00		94.0		70-130			
1,3,5-Trimethylbenzene	4.38				5.00		87.7		70-130			
Vinyl Acetate	5.18				5.00		104		70-130			
Vinyl Chloride	5.10				5.00		102		70-130			
m&p-Xylene	11.7				10.0		117		70-130			
o-Xylene	5.68				5.00		114		70-130			
Surrogate: 4-Bromofluorobenzene (1)	*9.95*				*8.00*		*124*		*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.18*				*8.00*		*102*		*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 B124342 - TO-15 Prep											
Duplicate (B124342-DUP1)			**Source: 15F0576-08**		Prepared: 06/12/15 Analyzed: 06/13/15						
Acetone	4.4	1.4	10	3.3		4.3			2.77	25	V-05
Benzene	0.13	0.035	0.41	0.11		0.13			2.19	25	
Benzyl chloride	ND	0.035	ND	0.18		ND				25	V-05
Bromodichloromethane	ND	0.035	ND	0.24		ND				25	
Bromoform	ND	0.035	ND	0.36		ND				25	
Bromomethane	ND	0.035	ND	0.14		ND				25	
1,3-Butadiene	ND	0.035	ND	0.078		ND				25	
2-Butanone (MEK)	0.77	1.4	2.3	4.1		0.72			6.14	25	J
Carbon Disulfide	0.028	0.35	0.087	1.1		ND				25	J
Carbon Tetrachloride	0.056	0.035	0.35	0.22		0.058			2.47	25	
Chlorobenzene	ND	0.035	ND	0.16		ND				25	
Chloroethane	ND	0.035	ND	0.093		ND				25	
Chloroform	0.023	0.035	0.11	0.17		0.023			0.00	25	J
Chloromethane	0.70	0.070	1.4	0.14		0.56			22.5	25	
Cyclohexane	ND	0.035	ND	0.12		ND				25	
Dibromochloromethane	ND	0.035	ND	0.30		ND				25	
1,2-Dibromoethane (EDB)	ND	0.035	ND	0.27		ND				25	
1,2-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,3-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
1,4-Dichlorobenzene	ND	0.035	ND	0.21		ND				25	
Dichlorodifluoromethane (Freon 12)	0.42	0.035	2.1	0.17		0.47			12.3	25	
1,1-Dichloroethane	ND	0.035	ND	0.14		ND				25	
1,2-Dichloroethane	0.014	0.035	0.057	0.14		0.013			5.13	25	J
1,1-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
cis-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
trans-1,2-Dichloroethylene	ND	0.035	ND	0.14		ND				25	
1,2-Dichloropropane	ND	0.035	ND	0.16		ND				25	
cis-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
trans-1,3-Dichloropropene	ND	0.035	ND	0.16		ND				25	
Ethanol	2.7	1.4	5.0	2.6		2.6			4.02	25	
Ethyl Acetate	ND	0.035	ND	0.13		ND				25	
Ethylbenzene	0.022	0.035	0.094	0.15		0.024			9.23	25	J
4-Ethyltoluene	ND	0.035	ND	0.17		ND				25	
Heptane	0.025	0.035	0.10	0.14		ND				25	J
Hexachlorobutadiene	ND	0.035	ND	0.37		ND				25	
Hexane	0.093	1.4	0.33	4.9		0.084			11.1	25	J
2-Hexanone (MBK)	0.043	0.035	0.18	0.14		0.041			3.33	25	
Isopropanol	ND	1.4	ND	3.4		0.18				25	L-03, V-05
Methyl tert-Butyl Ether (MTBE)	ND	0.035	ND	0.13		ND				25	
Methylene Chloride	0.13	0.35	0.47	1.2		0.14			1.04	25	J
Methyl methacrylate	ND	0.035	ND	0.14		ND				25	
4-Methyl-2-pentanone (MIBK)	ND	0.035	ND	0.14		ND				25	
Propene	ND	1.4	ND	2.4		ND				25	
Styrene	ND	0.035	ND	0.15		ND				25	L-03
1,1,1,2-Tetrachloroethane	ND	0.064	ND	0.44		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.035	ND	0.24		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 B124342 - TO-15 Prep											
Duplicate (B124342-DUP1)			**Source: 15F0576-08**		Prepared: 06/12/15 Analyzed: 06/13/15						
Tetrachloroethylene	0.043	0.035	0.29	0.24		0.043			0.00	25	
Tetrahydrofuran	ND	0.035	ND	0.10		ND				25	
Toluene	0.14	0.035	0.52	0.13		0.14			2.56	25	
1,2,4-Trichlorobenzene	ND	0.035	ND	0.26		ND				25	
1,1,1-Trichloroethane	ND	0.035	ND	0.19		ND				25	
1,1,2-Trichloroethane	ND	0.035	ND	0.19		ND				25	
Trichloroethylene	ND	0.035	ND	0.19		ND				25	
Trichlorofluoromethane (Freon 11)	0.28	0.14	1.6	0.79		0.27			4.10	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.091	0.14	0.70	1.1		0.084			8.00	25	J
1,2,4-Trimethylbenzene	0.012	0.035	0.059	0.17		0.012			0.00	25	J
1,3,5-Trimethylbenzene	ND	0.035	ND	0.17		ND				25	
Vinyl Acetate	ND	0.70	ND	2.5		ND				25	
Vinyl Chloride	ND	0.035	ND	0.090		ND				25	
m&p-Xylene	0.056	0.070	0.24	0.30		0.056			0.00	25	J
o-Xylene	0.023	0.035	0.10	0.15		0.025			5.88	25	J
Surrogate: 4-Bromofluorobenzene (1)	*9.44*				*8.00*		*118*	*70-130*			
Surrogate: 4-Bromofluorobenzene (2)	*8.02*				*8.00*		*100*	*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.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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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
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
Toluene	AIHA,FL,NJ,NY,VA,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA TO-15 in Air	
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	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

con-test® ANALYTICAL LABORATORY
www.contestlabs.com
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

15F0576

DOC#284
Rev. Feb 2014

Company Name: Amec Foster Wheeler
Address: 271 Mill Rd. Chelmsford, MA 01824
Attention: Mark Maggiore
Project Location: Providence, RI
Sampled By: MMaggiore
Proposal Provided? (For Billing purposes) ☐ yes ______ proposal date

Telephone: 978-692-9090
Project #: 3652150005
Client PO #: C01220636 8

DATA DELIVERY (check one): ☐ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax #:
Email: mark.maggiore@amecfw.com
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☑ OTHER Equis

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

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

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

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	Analysis Requested: TO-15 low level					Initial Pressure ("Hg)	Final Pressure ("Hg)	Lab Receipt Pressure	Summa Canister ID	Flow Controller ID
	IA-1-061115	S	01	6-11-15 718	6-11-15 748	30	0.2	6	IA	X					-29	-3	2.6	1846	4205
	IA-2-061115	S	02	6-11-15 1007	6-11-15 1037	30	0.2	6	IA	X					-29	-5	4.6	1161	4193
	IA-3-061115	S	03	6-11-15 721	6-11-15 751	30	0.2	6	IA	X					-30	-4	3.8	1009	4204
	IA-4-061115	S	04	6-11-15 1009	6-11-15 1039	30	0.2	6	IA	X					-28	-5	-5	1163	4192
	IA-5-061115	S	05	6-11-15 859	6-11-15 929	30	0.2	6	IA	X					-25	-6	4.4	1380	4077
	IA-6-061115	S	06	6-11-15 905	6-11-15 935	30	0.2	6	IA	X					-26	-7	0	1062	4085
	IA-7-061115	S	07	6-11-15 930	6-11-15 1000	30	0.2	6	IA	X					-29	-8	8.4	1057	4088
	AA-1-061115	S	08	6-11-15 1029	6-11-15 1059	30	0.2	6	AA	X					-30	-3	2.4	1621	4067

Laboratory Comments:

CLIENT COMMENTS:

Relinquished/Received	Date/Time
Relinquished by: (signature) [signature]	6-11-15 1125
Received by: (signature) [signature] 6/11/15	11:25
Relinquished by: (signature) [signature] 6/11/15	1600
Received by: (signature) [signature] 6/11/15	16:00

Turnaround **
☑ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: CT Industrial
Data Enhancement/RCP? ☐ Y ☑ N
Enhanced Data Package ☐ Y ☑ N
(Surchage Applies)
Required Detection Limits: CT
Other:

*Matrix Code:
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

**Media Codes:
S=summa can
T=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. NELAC & AIHA-LAP, LLC Accredited/WBE/DBE Certified

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DOC#284
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Company Name: Amec Foster Wheeler
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Chelmsford, MA 01824
Attention: Mark Massoue
Project Location: Providence, RI
Sampled By: M Massoue

Telephone: 978-692-9090
Project #: 3655215005
Client PO #: CO12206368

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax #:
Email: mark.massoue@amecfw.com
Format: ☐EXCEL ☐PDF ☐GIS KEY ☒OTHER Excel

Proposal Provided? (For Billing purposes)
☐yes _____ proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	ONLY USE WHEN USING PUMPS Total Minutes Sampled	Flow Rate M³/Min. or L/Min.	Volume Liters or M³	Matrix Code*	ANALYSIS REQUESTED TO-15 Full				"Hg Initial pressure	"Hg Final pressure	"Hg Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	EW-5-061115	S	09	6-11-15 752	6-11-15 822	30	0.2	6	SS	X				-26	-4	-4.5	1031	4076
	EW-6-061115	S	10	6-11-15 910	6-11-15 940	30	0.2	6	SS	X				-29	-7	-7	1848	4086
	EW-7-061115	S	11	6-11-15 931	6-11-15 1001	30	0.2	6	SS	X				-29	-5	-9	1826	4089
	EW-comb.vol-061115	S	12	6-11-15 1027	6-11-15 1057	30	0.2	6	SS	Y				-26	-5	-5.5	1314 (KB)	4066

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

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

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

Laboratory Comments:

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
	6-11-15 1122
Received by: (signature) 6/11/15	Date/Time: 11:25
Relinquished by: (signature) 6/11/15	Date/Time: 1600
Received by: (signature) 6/11/15	Date/Time: 16:00

Turnaround **
☑ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: CT Industrial
Data Enhancement/RCP? ☐Y ☒N
Enhanced Data Package ☐Y ☒N
(Surchage Applies)
Required Detection Limits: CT
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

****Media Codes:**
S=summa can
T=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT. NELAC & AIHA-LAP, LLC Accredited/WBE/DBE Certified

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01028
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F: 413-525-6405

AIR Only Receipt Checklist

CLIENT NAME: Amec Foster Wheeler **RECEIVED BY:** KB **DATE:** 6/11/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? Yes (No)

If not, explain: "IA-6..." received w/ valve open, Final Pressure: -7" Receipt Pres.: 0"

4) Are there any samples "On Hold"? Yes (No) Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

6) Location where samples are stored: Air Lab

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

7) Number of cans Individually Certified or Batch Certified? _____

Containers received at Con-Test

		# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)		13	6L
Tedlar Bags			
TO-17 Tubes			
Regulators		13	30 min.
Restrictors			
Hg/Hopcalite Tube (NIOSH 6009)			
(TO-4A/ TO-10A/TO-13) PUFs			
PCB Florisil Tubes (NIOSH 5503)			
Air cassette			
PM 2.5/PM 10			
TO-11A Cartridges			
Other			

Unused Summas/PUF Media:

1063 -29"

Unused Regulators:

4206

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

1846 1009 1320 1057 1848
1161 1163 1062 1031 1621 1826 1314

4205 4077 4076
4193 4085 4086
4204 4088 4089
4192 4067 4066

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The coolers'/boxes' custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	F	See page 1
3) Samples were received on ice.	F	
4) Cooler Temperature is acceptable.	NA	
5) Cooler Temperature is recorded.	NA	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) Samples are received within Holding Time.	T	
10) Sample containers have legible labels.	T	
11) Containers/media are not broken or leaking and valves and caps are closed tightly.	F	See page 1
12) Sample collection date/times are provided.	T	
13) Appropriate sample/media containers are used.	T	
14) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
15) Trip blanks provided if applicable.	NA	

Who notified of False statements?

Log-In Technician Initials: KB

Date/Time: 6/11/15

Date/Time: 16:00

Doc #278 Rev. 5 October 2014

APPENDIX B

Analytical Laboratory Detection Limits

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)								