



engineering and constructing a better tomorrow

April 8, 2010

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

**RE: Quarterly Air Monitoring Report
Retail Complex, Active Sub-Slab Depressurization System
Former Gorham Manufacturing Facility
333 Adelaide Avenue, Providence, Rhode Island
MACTEC Project No. 3650080114**

Dear Mr. Martella:

This letter report presents the results of quarterly compliance sampling conducted by MACTEC Engineering and Consulting, Inc. (MACTEC) at the retail complex located at the Former Gorham Manufacturing Facility, 333 Adelaide Avenue, Providence, Rhode Island (the Site). The reporting period is from December 1, 2009 to February 28, 2010.

The sampling and this reporting were 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 small retail

space connected to individual radon-type fans, located at the north, or rear, of each small retail space.

Small Retail Spaces

The second quarterly monitoring of the three small retail spaces, consistent with the requirements of the Orders of Approval, was completed on December 29, 2009.

Table 1 summarizes the small retail spaces' analytical results 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 Target Air Concentrations (TAC), which were identified as action levels in the Orders of Approval. The laboratory report (LIMT-25337) associated with the December 29, 2009 quarterly sampling event is provided in Appendix A of this letter report. The analytical laboratory's detection limits are provided in Appendix B.

Each of the post-start-up sampling events 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 at an upwind location during each of the sampling rounds (dependent on weather conditions). 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 are in compliance with action levels for the quarterly sampling event in the three small retail spaces (sample locations IA-5, IA-6, and IA-7).
- The eastern small retail space (indoor air sample location IA-5) and the western small retail space (indoor air sample location IA-7) of the retail complex are currently occupied. The center small retail space (indoor sample location IA-6) remains unoccupied.
- The mitigation systems are functioning as designed and are achieving desired results with respect to indoor quality in the three small retail units.

Large Retail Space

Four weekly monitoring events of the large retail space, consistent with the requirements of the Orders of Approval, were completed on January 28, February 5, February 12, and February 19, 2010.

Table 3 summarizes the large retail space's analytical results for the baseline sampling event conducted prior to system start-up and all subsequent sampling events conducted after system start-up. The laboratory reports associated with the four most recent sampling events are provided in Appendix A of this letter report. The analytical laboratory's detection limits are provided in Appendix B.

Each of the post-start-up sampling events 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 vapor extraction well (EW Combined). The sampling locations are shown in Figure 1. The outdoor reference air sample (AA-1) was located at an upwind location during each of the sampling rounds (dependent on weather conditions). 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 weekly sampling events in the large retail space (sample locations IA-1 through IA-4).¹
- The mitigation system is functioning as designed and is achieving desired results with respect to indoor air quality in the large retail space.

¹ Chloroform was detected in one sample (IA-3) at a concentration ($0.53 \mu\text{g}/\text{m}^3$) that is slightly above the corresponding action level ($0.5 \mu\text{g}/\text{m}^3$). Chloroform is not one of the compounds for which the vapor mitigation system was installed. There has recently been more activity in the large retail space, and it is possible that some volatile compounds are being introduced into the indoor air by the activity. Table 5 shows large retail space indoor air data since January 2009 for chloroform, ethanol, and isopropyl alcohol. It is clear that chloroform was not an indoor air issue even at the initial sampling event prior to turning on the vapor mitigation system. However, on February 5, 2010, the concentrations of chloroform ethanol, and isopropyl alcohol all seem to have increased at the time of this sampling event. This is at a time when most of the site-related VOCs are not detected in indoor air. The chloroform appears to be unrelated to the vapor intrusion pathway and the single concentration of chloroform above the action level does not constitute a violation of the action levels contained in the order.

ASD System Monitoring

The ASD system performance is monitored biweekly by Clean Harbors Environmental Services. During the month of December 2009, the ASD system experienced unexplained power outages. One of these was likely due to the snow storm on December 19, 2009. RIDEM was notified in both these cases and Clean Harbors mobilized to the Site to troubleshoot the causes and restart the systems. There were no other system shutdowns during the reporting period.

Next Reporting Period

The next quarterly report will cover March, April, and May 2010. The report will be prepared and submitted to the Rhode Island Department of Environmental Management (RIDEM) in June 2010.

Please contact the undersigned at 781-245-6606 if we can provide additional information or answer any questions concerning these monitoring events and system adjustments.

Sincerely,
MACTEC Engineering and Consulting, Inc.



Annette McLean
Project Scientist



Michael Murphy
Sr. Principal Scientist

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
Table 5 – Summary of Indoor Air Data – Chloroform, Ethanol, and Isopropyl Alcohol Large Retail Space – January 2009 – February 2010

Figure 1 – Vapor Mitigation Sample Locations

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

cc: T. Deller, City of Providence
G. Simpson, Textron, Inc. (Electronic)
Knight Memorial Library Repository
G. Wilson, Kimco Realty Corporation (including tenants)
J. Morgan, The Stop & Shop Supermarket Co. LLC
MACTEC Project File

TABLES

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

Parameter (ug/m ³)	Outdoor Air Reference Locations									
	AA-1 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
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
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
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
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 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
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
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
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 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
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
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.5	0.25 U	0.25 U	0.25 U	0.18 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
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.53	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
2-Butanone	0.58	1.2	2.4	3.2	1.6	0.67	1.7	0.11 U	1.6	1.6
2-Hexanone	0.2 U	0.22	0.57	0.35	0.2 U	0.2 U	0.2 U	0.14 U	0.26	0.39
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
4-Methyl-2-pentanone	0.2 U	0.2 U	0.27	0.63	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
Acetone	7.3	8	15	22	8.4	5.9	12	1.1	27	9.5
Benzene	0.69	0.62	1.3	4.7	0.43	0.69	0.46	0.12 U	0.3	0.4
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
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
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
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
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
Carbon tetrachloride	0.38	0.44	0.52	0.56	0.43	0.61	0.47	0.22 U	0.41	0.78
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
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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
Chloromethane	1.1	0.9	1.4	1.5	1.1	1.1	1.3	1.1	1.2	1.1
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 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

Table 1.
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	AA-1 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
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
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
Dichlorodifluoromethane	2	2.2	2.6	2.7	2.6	2.6	2.8	2	2.5	2.7
Ethanol	4	5.4	10	47	4.3	3.5	4.7	0.81	4.9	4.8
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
Ethylbenzene	0.22 U	0.25	0.52	2	0.22 U	0.22 U	0.22 U	0.16 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
Hexane	1.5	0.75	1.1	2.9	0.38	2.8	2.2	0.13 U	0.56	0.37
Isopropyl alcohol	1.4	1.4	1.8	4.3	1.4	0.67	1.4	0.18 U	14	1
m,p-Xylene	0.43 U	0.72	1.4	6.4	0.44	0.43 U	0.43 U	0.31 U	0.43 U	0.49
Methylene chloride	5.5	3.1	0.65	1.5	0.78	7.4	15	2.1	2.8	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
n-Heptane	0.2 U	0.27	0.92	1.6	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.4
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
Propylene (Propene)	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.09 U	0.13 U	0.18 U	0.09 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
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
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
Toluene	0.94	1.5	3.2	14	0.71	0.99	0.82	0.14 U	0.72	2.6
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 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
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
Trichlorofluoromethane	1.3	1.2	1.7	2.4	1.5	2	1.7	0.92	1.3	1.5
Trichlorotrifluoroethane	0.68	0.53	0.5	0.47	0.64	0.48	0.51	0.27 U	0.64	0.67
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.5 U	0.71 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	0.1 U	0.13 U	0.13 U

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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
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	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	0.29	0.3	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-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	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone	1.1	1.7	0.84	1.2	1.2	2	0.81	1.6	1.6	0.88
2-Hexanone	0.2 U	0.34	0.2 U	0.33	0.23	0.2 U	0.2 U	0.32	0.2 U	0.2 U
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
4-Methyl-2-pentanone	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.34	0.2 U
Acetone	10	10	9.6	5.4	17	11	3.5	7.6	5	3.7
Benzene	0.49	0.38	0.35	0.25	0.2	0.42	0.79	0.68	0.63	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
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	0.28	0.16 U	0.16 U	0.44
Carbon tetrachloride	0.43	0.4	0.4	0.43	0.46	0.39	0.42	0.39	0.31 U	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
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	1.2	0.85	1.1	0.97	0.96	1.6	1.1	1.2	1.3	1.1
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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

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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	2.6	2.1	2.1	2.2	2.1	2.1	2.3	2.4	2.5	2.9
Ethanol	8.6	6.6	4.6	3.9	4.9	3.8	5.4	5.1	7.2	1.2
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	1.1
Ethylbenzene	0.24	0.22 U	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Hexachlorobutadiene	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U
Hexane	0.59	0.48	1.4	0.45	4.5	0.62	0.36	0.53	0.91	0.24
Isopropyl alcohol	2.5	2.8	0.87	0.63	0.25 U	0.54	0.56	2.7	1.5	0.8
m,p-Xylene	0.73	0.62	0.59	0.43 U	0.43 U	0.43 U	0.43 U	0.5	0.47	0.43 U
Methylene chloride	1.9	0.7 U	4.2	0.7 U	23	4.6	1.3	1.9	1.7	0.7 U
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.23	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.2 U
o-Xylene	0.27	0.23	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Propylene (Propene)	0.09 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
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
Tetrachloroethene	0.34 U	0.52	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	1.2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19
Toluene	2.1	1.9	2	0.61	0.5	0.78	0.94	0.64	0.97	0.46
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.3	0.27 U
Trichlorofluoromethane	2	1.1	1.4	1.2	1.5	2.2	1.2	1.2	1.6	1.5
Trichlorotrifluoroethane	0.56	0.47	0.49	0.45	0.46	0.54	0.49	0.55	0.54	0.54
Vinyl acetate	0.18 U	0.71 U	0.71 U	0.71 U	0.71 U	0.36 U	0.71 U	0.71 U	0.71 U	0.71 U
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

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

Parameter (ug/m ³)	Extraction Well - Eastern Small Retail Space									
	EW-5-020309 2/3/2009	EW-5-021109 2/11/2009	EW-5-021809 2/18/2009	EW-5-022609 2/26/2009	EW-5-030609 3/6/2009	EW-5-041409 4/14/2009	EW-5-051509 5/15/2009	EW-5-061109 6/11/2009	EW-5-091709 9/17/2009	EW-5-122909 12/29/2009
1,1,1-Trichloroethane	190000	41000	17000	7100	1800	2600	3100	1900	3500	920
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
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
1,1-Dichloroethane	11000	1900	890	770	190	360	450	430	230	100
1,1-Dichloroethene	2500	290	130	190	61	160	160	160	98	30
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
1,2,4-Trimethylbenzene	5 U	5 U	5 U	5 U	1.3 U	50 U	2.5 U	2.5 U	2.5 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
1,2-Dichlorobenzene	6 U	6 U	6 U	6 U	1.5 U	60 U	3 U	3 U	3 U	3 U
1,2-Dichloroethane	4 U	4 U	4 U	4 U	1 U	40 U	2 U	2 U	2 U	2 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
1,2-Dichlorotetrafluoroethane	7 U	7 U	7 U	7 U	1.8 U	70 U	3.5 U	3.5 U	3.5 U	3.5 U
1,3,5-Trimethylbenzene	5 U	5 U	5 U	5 U	1.3 U	50 U	2.5 U	2.5 U	2.5 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
1,3-Dichlorobenzene	6 U	6 U	6 U	6 U	1.5 U	60 U	3 U	3 U	3 U	3 U
1,4-Dichlorobenzene	6 U	6 U	6 U	6 U	1.5 U	60 U	3 U	3 U	3 U	3 U
2-Butanone	6.3	89	75	170	3700	64000	100000	230000	110000	7800
2-Hexanone	4 U	4 U	4 U	4 U	1 U	40 U	2.7	2 U	2 U	2 U
4-Ethyltoluene	5 U	5 U	5 U	5 U	1.3 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-pentanone	4 U	4 U	4 U	4 U	1 U	40 U	2 U	2 U	2 U	2 U
Acetone	530	32	52	29	460	5600	14000	6900	9200	1700
Benzene	13	12	6.2	4.8	5.6	32 U	11	7.1	11	6.3
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
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
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
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
Carbon disulfide	3.2 U	3.2 U	3.2 U	3.2 U	0.8 U	230	4	5.4	8.2	2.9
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
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
Chloroethane	260	23	16	11	4.5	26 U	11	15	7	6.5
Chloroform	83	32	20	16	2.8	48 U	7.2	6.5	5.8	2.6
Chloromethane	2 U	2 U	2 U	2 U	0.5 U	20 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	2900	710	400	410	100	150	270	250	170	58
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

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

Parameter (ug/m ³)	Extraction Well - Eastern Small Retail Space									
	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
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
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
Dichlorodifluoromethane	5 U	5 U	5 U	5 U	2.7	50 U	3	3.2	2.5 U	2.5 U
Ethanol	320	36	46	33	22	130	30	26	3.8 U	45
Ethyl acetate	7.3 U	3.6 U	3.6 U	7.3 U	0.9 U	73 U	1.8 U	1.8 U	1.8 U	1.8 U
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
Hexachlorobutadiene	22 U	22 U	22 U	22 U	5.4 U	220 U	11 U	11 U	5.3 U	11 U
Hexane	5	3.6 U	3.6 U	3.6 U	2.3	36 U	3.3	1.8 U	1.8 U	1.8 U
Isopropyl alcohol	190	5.1	4.6	5 U	4.6	290	24	57	35	2.5 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
Methylene chloride	7.8	7 U	9.6	7 U	12	720	21	15	7 U	25
Methyl-t-butyl ether	3.6 U	3.6 U	3.6 U	3.6 U	0.9 U	36 U	1.8 U	1.8 U	1.8 U	1.8 U
n-Heptane	4 U	4 U	4 U	4 U	1 U	40 U	2 U	2 U	2 U	2 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
Propylene (Propene)	3.5 U	1.8 U	1.8 U	3.5 U	0.45 U	35 U	0.9 U	0.9 U	3.5 U	3.5 U
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
Tetrachloroethene	210	310	190	97	8	68 U	21	25	19	8.9
Tetrahydrofuran	16	110	69	140	2200	42000	61000	150000	94000	9700
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
trans-1,2-Dichloroethene	26	6.1	4 U	4.7	1 U	40 U	2.6	2.8	2 U	2 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
Trichloroethene	51000	20000	14000	8900	2400	3800	4400	2700	6800	1600
Trichlorofluoromethane	3500	200	120	67	16	56 U	27	41	2.8 U	53
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
Vinyl acetate	15 U	3.6 U	3.6 U	15 U	0.9 U	150 U	1.8 U	1.8 U	7.1 U	3.6 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

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

Parameter (ug/m ³)	Extraction Well - Center Small Retail Space									
	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
1,1,1-Trichloroethane	69000	32000	21000	16000	16000	5600	8200	5700	5400	1100
1,1,2,2-Tetrachloroethane	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
1,1,2-Trichloroethane	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
1,1-Dichloroethane	5200	2500	2100	2200	1600	780	1200	1100	930	580
1,1-Dichloroethene	850	210	100	110	55	74	87	83	80	6.4
1,2,4-Trichlorobenzene	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
1,2,4-Trimethylbenzene	5 U	5 U	5 U	16	6.2	50 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (EDB)	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
1,2-Dichlorobenzene	6 U	6 U	6 U	6 U	6 U	60 U	3 U	3 U	3 U	3 U
1,2-Dichloroethane	4 U	4 U	4 U	4 U	4 U	40 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	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
1,2-Dichlorotetrafluoroethane	7 U	7 U	7 U	7 U	7 U	70 U	3.5 U	3.5 U	3.5 U	3.5 U
1,3,5-Trimethylbenzene	5 U	5 U	5 U	7.3	5 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Butadiene	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
1,3-Dichlorobenzene	6 U	6 U	6 U	6 U	6 U	60 U	3 U	3 U	3 U	3 U
1,4-Dichlorobenzene	6 U	6 U	6 U	6 U	6 U	60 U	3 U	3 U	3 U	3 U
2-Butanone	120	280	300	130	97	160	37	65	8.7	23
2-Hexanone	4 U	4 U	4 U	4 U	4 U	40 U	2 U	2 U	2 U	2 U
4-Ethyltoluene	5 U	5 U	5 U	5 U	5 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-pentanone	4 U	4 U	4 U	4 U	4 U	40 U	2 U	2 U	2 U	2 U
Acetone	580	64	81	33	22	410	16	20	4.8 U	27
Benzene	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
Benzyl chloride	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
Bromodichloromethane	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
Bromoform	11 U	11 U	11 U	11 U	11 U	110 U	5.1 U	5.1 U	5.1 U	5.1 U
Bromomethane	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
Carbon disulfide	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
Carbon tetrachloride	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
Chlorobenzene	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
Chloroethane	140	50	34	18	13	26 U	13	14	11	4.0
Chloroform	42	24	19	29	21	50	14	12	12	7.2
Chloromethane	2 U	2 U	2 U	2 U	2 U	34	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	700	360	220	250	150	120	190	170	130	36
cis-1,3-Dichloropropene	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

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

Parameter (ug/m ³)	Extraction Well - Center Small Retail Space									
	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
Cyclohexane	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
Dibromochloromethane	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
Dichlorodifluoromethane	5 U	5 U	5 U	5 U	5 U	50 U	3.6	3.9	2.7	2.5 U
Ethanol	360	38	73	38	25	110	18	14	6.7	18
Ethyl acetate	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
Ethylbenzene	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
Hexachlorobutadiene	22 U	22 U	22 U	22 U	22 U	220 U	11 U	11 U	5.3 U	11 U
Hexane	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
Isopropyl alcohol	210	18	33	15	10	230	8.2	11	20	2.5 U
m,p-Xylene	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
Methylene chloride	7 U	7 U	7.5	7 U	7 U	780	12	15	7 U	27
Methyl-t-butyl ether	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
n-Heptane	4 U	4 U	4 U	4 U	4 U	40 U	2 U	2 U	2 U	2 U
o-Xylene	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
Propylene (Propene)	3.5 U	1.8 U	1.8 U	3.5 U	1.8 U	35 U	0.9 U	0.9 U	3.5 U	3.5 U
Styrene	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
Tetrachloroethene	330	290	130	290	190	300	190	210	250	68
Tetrahydrofuran	75	480	260	730	570	130	110	87	9.1	31
Toluene	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
trans-1,2-Dichloroethene	12	6.3	4.2	6.4	4 U	40 U	2.6	2.7	2	2.1
trans-1,3-Dichloropropene	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
Trichloroethene	12000	6900	4200	4400	4800	3900	5400	4700	6100	2000
Trichlorofluoromethane	2300	870	630	350	250	150	230	440	700	320
Trichlorotrifluoroethane	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
Vinyl acetate	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
Vinyl chloride	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

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

Parameter (ug/m ³)	Extraction Well - Western Small Retail Space									
	EW-7-020309 2/3/2009	EW-7-021109 2/11/2009	EW-7-021809 2/18/2009	EW-7-022609 2/26/2009	EW-7-030609 3/6/2009	EW-7-041409 4/14/2009	EW-7-051509 5/15/2009	EW-7-061109 6/11/2009	EW-7-091709 9/17/2009	EW-7-122909 12/29/2009
1,1,1-Trichloroethane	5600	8500	7800	8200	8100	1600	3600	2600	1400	340
1,1,2,2-Tetrachloroethane	6.8 U	1.4 U	1.7 U	1.7 U	1.7 U	6.8 U	3.4 U	3.4 U	3.4 U	3.4 U
1,1,2-Trichloroethane	5.4 U	1.1 U	1.4 U	1.4 U	1.4 U	5.4 U	2.7 U	2.7 U	2.7 U	2.7 U
1,1-Dichloroethane	1700	1800	1600	2100	1700	590	1000	1100	970	470
1,1-Dichloroethene	14	15	8.5	9.4	6.6	4 U	4.2	4.2	4.5	2 U
1,2,4-Trichlorobenzene	7.4 U	1.5 U	1.9 U	1.9 U	1.9 U	7.4 U	3.7 U	3.7 U	3.7 U	7.5 U
1,2,4-Trimethylbenzene	5 U	1 U	1.3 U	1.3 U	1.3 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (EDB)	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U	3.8 U	3.8 U	3.8 U
1,2-Dichlorobenzene	6 U	1.2 U	1.5 U	1.5 U	1.5 U	6 U	3 U	3 U	3 U	3 U
1,2-Dichloroethane	4 U	0.8 U	1 U	1 U	1 U	4 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U
1,2-Dichlorotetrafluoroethane	7 U	1.4 U	1.8 U	1.8 U	1.8 U	7 U	3.5 U	3.5 U	3.5 U	3.5 U
1,3,5-Trimethylbenzene	5 U	1 U	1.3 U	1.3 U	1.3 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Butadiene	2.2 U	0.44 U	0.55 U	0.55 U	0.55 U	2.2 U	1.1 U	1.1 U	2.3 U	1.1 U
1,3-Dichlorobenzene	6 U	1.2 U	1.5 U	1.5 U	1.5 U	6 U	3 U	3 U	3 U	3 U
1,4-Dichlorobenzene	6 U	1.2 U	1.5 U	1.5 U	1.5 U	6 U	3 U	3 U	3 U	3 U
2-Butanone	8.7	12	7.3	8.5	5.5	4.5	7.1	16	4.9	3.5
2-Hexanone	4 U	0.8 U	1 U	1 U	1 U	4 U	2 U	2 U	2 U	2 U
4-Ethyltoluene	5 U	1 U	1.3 U	1.3 U	1.3 U	5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Methyl-2-pentanone	4 U	0.8 U	1 U	1 U	1 U	4 U	2 U	2 U	2 U	2 U
Acetone	580	38	58	30	24	15	24	24	7.9	49
Benzene	3.2 U	3.9	4.5	1.9	2.3	3.2 U	2.6	2.8	3	2.2
Benzyl chloride	5.2 U	1.1 U	1.3 U	1.3 U	1.3 U	5.2 U	2.6 U	2.6 U	2.6 U	2.6 U
Bromodichloromethane	6.6 U	1.4 U	1.7 U	1.7 U	1.7 U	6.6 U	3.3 U	3.3 U	3.3 U	3.3 U
Bromoform	11 U	2.1 U	2.6 U	2.6 U	2.6 U	11 U	5.1 U	5.1 U	5.1 U	5.1 U
Bromomethane	3.8 U	0.76 U	0.95 U	0.95 U	0.95 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U
Carbon disulfide	5.7	3.4	2.7	3.7	3.3	3.2 U	3.2	2.7	2.1	1.6 U
Carbon tetrachloride	6.2 U	1.3 U	1.6 U	1.6 U	1.6 U	6.2 U	3.1 U	3.1 U	3.1 U	3.1 U
Chlorobenzene	4.6 U	0.92 U	1.2 U	1.2 U	1.2 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U
Chloroethane	170	150	88	41	33	7.1	9.6	10	8.1	6.5
Chloroform	4.8 U	1	1.2 U	1.3	1.2 U	4.8 U	2.7	2.6	4.6	2.7
Chloromethane	2 U	0.4 U	0.5 U	0.5 U	0.5 U	2 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	1100	1300	1200	1700	1200	520	1100	1200	1300	680
cis-1,3-Dichloropropene	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U

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

Parameter (ug/m ³)	Extraction Well - Western Small Retail Space									
	EW-7-020309 2/3/2009	EW-7-021109 2/11/2009	EW-7-021809 2/18/2009	EW-7-022609 2/26/2009	EW-7-030609 3/6/2009	EW-7-041409 4/14/2009	EW-7-051509 5/15/2009	EW-7-061109 6/11/2009	EW-7-091709 9/17/2009	EW-7-122909 12/29/2009
Cyclohexane	3.4 U	5.6	5	3.7	2.1	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromochloromethane	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 U	4.3 U	4.3 U	4.3 U
Dichlorodifluoromethane	5 U	2.5	3.2	770	2.6	5 U	2.9	3.3	2.5 U	2.5 U
Ethanol	350	26	29	17	15	3.8 U	19	18	12	18
Ethyl acetate	7.3 U	0.72 U	0.9 U	1.9 U	0.9 U	7.3 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U
Hexachlorobutadiene	22 U	4.3 U	5.4 U	5.4 U	5.4 U	22 U	11 U	11 U	5.3 U	11 U
Hexane	10	10	7.6	5.5	3.1	3.6 U	4	2.1	1.8 U	1.8 U
Isopropyl alcohol	210	18	21	12	8.5	5 U	12	17	2.5 U	2.5 U
m,p-Xylene	8.6 U	1.8 U	2.2 U	2.2 U	2.2 U	8.6 U	4.3 U	4.3 U	4.3 U	4.3 U
Methylene chloride	9.3	2.6	8	1.8	1.8 U	20	29	16	7 U	27
Methyl-t-butyl ether	3.6 U	3.5	2.9	4.9	3.1	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U
n-Heptane	4 U	1.4	1 U	1 U	1 U	4 U	2 U	2 U	2 U	2 U
o-Xylene	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U
Propylene (Propene)	3.5 U	160	110	0.87 U	0.45 U	3.5 U	0.9 U	0.9 U	3.5 U	3.5 U
Styrene	4.2 U	0.84 U	1.1 U	1.1 U	1.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U
Tetrachloroethene	66	69	56	84	69	40	140	230	410	130
Tetrahydrofuran	41	23	12	14	7.5	3 U	5.6	15	4.1	1.5 U
Toluene	14	2.9	3.6	1.7	0.95 U	3.8 U	1.9 U	1.9 U	1.9 U	1.9 U
trans-1,2-Dichloroethene	150	140	90	90	80	48	120	140	150	84
trans-1,3-Dichloropropene	4.4 U	0.88 U	1.1 U	1.1 U	1.1 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U
Trichloroethene	230	210	180	180	200	110	330	420	920	420
Trichlorofluoromethane	1800	1400	900	690	640	190	310	660	1400	620
Trichlorotrifluoroethane	7.6 U	1.6 U	1.9 U	1.9 U	1.9 U	7.6 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl acetate	15 U	0.72 U	0.9 U	3.6 U	0.9 U	15 U	1.8 U	1.8 U	7.1 U	3.6 U
Vinyl chloride	280	370	180	48	21	2.6 U	2.7	3.2	1.3 U	1.6

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/m3)	Indoor Air - Eastern Small Retail Space										
		IA-5 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
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
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
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
1,1-Dichloroethane	430	1.8	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	20	0.58	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
1,2,4-Trimethylbenzene	52	0.25 U	0.32	0.33	0.36	0.25 U	0.25 U	0.2	0.25 U	0.35	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
1,2-Dichlorobenzene	410	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.31	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
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
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
1,3-Butadiene	NA	0.11 U	0.11 U	0.11 U	0.25	0.11 U	0.11 U	0.08 U	0.11 U	0.11 U	0.23 U	0.11 U
1,3-Dichlorobenzene	410	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	24	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 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
2-Hexanone	NA	0.2 U	0.48	0.38	0.27	0.2 U	0.2 U	0.47	0.45	1.1	0.48	0.2 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
4-Methyl-2-pentanone	200	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.18	0.2 U	0.68	0.23	0.2 U
Acetone	500	32	11	21	20	9.5	6.5	14	14	46	16	15
Benzene	3.3	0.79	0.6	0.99	1.6	0.41	0.55	0.62	0.49	0.53	0.35	0.45
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
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
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
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
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
Carbon tetrachloride	0.54	0.33	0.44	0.5	0.55 [a]	0.47	0.61 [a]	0.44	0.64 [a]	0.46	0.39	0.41
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
Chloroethane	500	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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
Chloromethane	80	1.1	1	1.5	1.4	1.1	1.1	1.1	1	1.4	1	2.0
cis-1,2-Dichloroethene	100	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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

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/m3)	Indoor Air - Eastern Small Retail Space										
		IA-5 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
Cyclohexane	NA	0.17 U	0.17 U	0.38	0.41	0.17 U	0.17 U	0.12 U	0.17 U	0.4	0.17 U	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
Dichlorodifluoromethane	500	2	2.2	2.5	2.7	2.6	2.6	1.9	2.5	2.2	2.1	1.9
Ethanol	NA	590	12	23	140	85	32	41	180	500	62	51
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
Ethylbenzene	290	0.22 U	0.25	0.33	0.43	0.22 U	0.22 U	0.24	0.22 U	0.3	0.23	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
Hexane	NA	0.84	0.54	1.1	0.99	0.39	0.5	0.71	0.58	1	0.52	0.57
Isopropyl alcohol	NA	3.8	3.5	580	2.9	3	1.3	1.7	2	19	3.5	3.8
m,p-Xylene	500	0.6	0.74	0.91	1.2	0.43 U	0.43 U	0.68	0.51	0.88	0.59	0.43 U
Methylene chloride	17	2	3.6	5.2	1.1	1.2	0.74	2.5	2.9	2	0.7 U	4.3
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
n-Heptane	NA	0.2 U	0.2 U	0.36	0.35	0.2 U	0.2 U	0.23	0.38	0.48	0.2 U	0.2 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
Propylene (Propene)	NA	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.13 U	0.09 U	0.09 U	0.35 U	0.35 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	0.3	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
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
Toluene	500	1.3	1.1	3	3.3	0.65	0.51	1.5	2.8	2.8	1.5	0.54
trans-1,2-Dichloroethene	200	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
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
Trichlorofluoromethane	500	3	1.3	1.7	1.8	1.5	1.7	1.2	1.3	2	1.2	1.8
Trichlorotrifluoroethane	NA	0.62	0.54	0.48	0.45	0.64	0.48	0.53	0.61	0.54	0.5	0.54
Vinyl acetate	NA	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.5 U	0.18 U	0.18 U	0.71 U	0.36 U
Vinyl chloride	1.9	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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

Parameter (ug/m ³)	Indoor Air - Center Small Retail Space										
	IA-6 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	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
1,1,2,2-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
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
1,1-Dichloroethane	3.9	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
1,2,4-Trimethylbenzene	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)	0.38 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	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U
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
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	0.25 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	0.11 U	0.11 U	0.11 U	1.1	0.11 U	0.11 U	0.08 U	0.11 U	0.11 U	0.23 U	0.11 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.41	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone	120	10	3.2	2.9	2.4	2.3	1	2.5	4.1	2.4	1.8
2-Hexanone	0.2 U	0.42	0.37	0.34	0.2 U	0.37	0.14 U	0.62	0.72	0.7	0.2 U
4-Ethyltoluene	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	0.2 U	0.2 U	0.2 U	0.36	0.2 U	0.2 U	0.14 U	0.34	0.7	0.29	0.2 U
Acetone	44	14	14	25	11	8.5	6.1	11	28	20	14
Benzene	1	0.6	0.98	4.1 [a]	0.41	0.7	0.59	0.47	0.43	0.31	0.40
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
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
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
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
Carbon disulfide	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	0.39	0.42	0.52	0.59 [a]	0.47	0.6 [a]	0.42	0.77 [a]	0.45	0.42	0.40
Chlorobenzene	0.23 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	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.3	0.9	1.4	1.5	1	1.1	1.1	1.1	1.9	0.97	1.8
cis-1,2-Dichloroethene	0.4	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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

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

Parameter (ug/m ³)	Indoor Air - Center Small Retail Space										
	IA-6 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
Cyclohexane	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	0.43 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	2.1	2.6	2.8	2.6	2.6	2	2.7	2.5	2.2	1.9
Ethanol	41	23	12	40	13	12	8.6	51	31	12	10
Ethyl acetate	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	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	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	1.2	0.78	0.7	2.6	0.33	0.4	0.63	0.38	0.68	0.45	0.18 U
Isopropyl alcohol	4.7	6.6	3.2	4.9	1.7	1.6	0.18 U	4.5	22	7	1.4
m,p-Xylene	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
Methylene chloride	2.5	5.2	0.59	1.6	0.83	0.69	2	2	2.6	0.7 U	2.9
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
n-Heptane	0.27	0.2 U	0.32	1.3	0.2 U	0.2 U	0.21	0.2 U	0.26	0.2 U	0.2 U
o-Xylene	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)	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.13 U	0.09 U	0.09 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	0.15 U	0.25	0.21 U	0.23	0.21 U
Tetrachloroethene	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	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	1.8	1.3	2.5	11	0.65	0.71	1.3	0.81	2	1.1	0.49
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
Trichloroethene	13	1.7	0.27 U	0.34	0.27 U	0.27 U	0.6	0.27 U	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	4.8	1.3	1.7	2.5	1.5	1.7	1.4	1.2	2.2	1.2	1.7
Trichlorotrifluoroethane	0.64	0.51	0.48	0.45	0.64	0.48	0.53	0.74	0.63	0.48	0.51
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.5 U	0.18 U	0.18 U	0.71 U	0.36 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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

Parameter (ug/m ³)	Indoor Air - Western Small Retail Space										
	IA-7 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
1,1,1-Trichloroethane	44	2.4	0.4	1.3	0.27 U	0.27 U	0.87	0.27 U	0.27 U	0.27 U	0.27 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
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
1,1-Dichloroethane	1.3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.52	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
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
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
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U
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
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	0.25 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
1,3-Butadiene	0.11 U	0.11 U	0.14	0.97	0.11 U	0.11 U	0.08 U	0.11 U	0.11 U	0.23 U	0.11 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 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-Hexanone	0.2 U	0.29	0.2 U	0.91	0.2 U	0.2 U	0.14 U	0.53	1.5	0.53	0.2 U
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
4-Methyl-2-pentanone	0.2 U	0.2 U	0.2 U	0.42	0.2 U	0.2 U	0.14 U	0.22	0.79	0.24	0.2 U
Acetone	29	12	13	32	7.8	6.6	6.5	10	31	22	31
Benzene	0.95	0.75	1.1	3.2	0.67	0.73	0.42	0.35	0.52	0.43	0.52
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
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
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
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
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
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
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
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1.7	0.98	1.4	1.5	1	1.2	1.1	0.93	1.8	1.2	2.1
cis-1,2-Dichloroethene	0.29	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14	0.2 U	0.2 U	0.2 U	0.27
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

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

Parameter (ug/m ³)	Indoor Air - Western Small Retail Space										
	IA-7 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
Cyclohexane	0.17 U	0.17 U	0.32	0.7	0.17 U	0.17 U	0.12 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	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.1	2.2	2.6	2.7	2.6	2.6	2	2.4	2.7	2.3	2.1
Ethanol	7.3	16	11	26	7.9	8.4	7.1	11	14	11	10
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
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
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
Hexane	0.9	0.87	0.91	2	1.1	0.6	0.69	0.33	1.5	0.88	0.25
Isopropyl alcohol	3.7	6.2	3.6	8.3	0.25 U	2.7	0.18 U	7	14	4	1.9
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
Methylene chloride	1.9	5.7	0.92	1.5	6.3	1.4	4.2	2.3	5.7	0.7 U	2.9
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
n-Heptane	0.2	0.2 U	0.37	1.2	0.2 U	0.2 U	0.17	0.2 U	0.34	0.37	0.2 U
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
Propylene (Propene)	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.13 U	0.09 U	0.09 U	0.35 U	0.35 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
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
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
Toluene	1.5	1.6	2.7	7.5	1.5	0.76	0.48	0.61	2.3	4	0.57
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 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
Trichloroethene	4.6	1.1	0.28	0.58	0.27 U	0.27 U	0.3	0.27 U	0.27 U	0.27 U	0.40
Trichlorofluoromethane	4.7	1.4	1.7	3.1	1.6	1.7	1.3	1.1	1.9	1.3	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
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.5 U	0.18 U	0.18 U	0.71 U	0.36 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.1 U	0.13 U	0.13 U	0.13 U	0.13 U

[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.

NA - not available

U - Not detected, value is the detection limit
ug/m³ - micrograms per cubic meter

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

Prepared by/Date: KJC 03/23/10

Checked by/Date: ARM 03/30/10

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

Date	Pressure Differential (inches of water)		
	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

Prepared by/Date: ARM 03/23/10

Checked by/Date: KJC 0331/10

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

Parameter (ug/m ³)	Outdoor Air Reference Locations													
	AA-1 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
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
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
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
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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
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	0.3	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
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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
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
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.5	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
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
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.53	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone	0.58	1.2	2.4	3.2	1.6	0.67	1.7	0.11 U	1.6	1.6	1.1	1.7	0.84	1.2
2-Hexanone	0.2 U	0.22	0.57	0.35	0.2 U	0.2 U	0.2 U	0.14 U	0.26	0.39	0.2 U	0.34	0.2 U	0.33
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
4-Methyl-2-pentanone	0.2 U	0.2 U	0.27	0.63	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acetone	7.3	8	15	22	8.4	5.9	12	1.1	27	9.5	10	10	9.6	5.4
Benzene	0.69	0.62	1.3	4.7	0.43	0.69	0.46	0.12 U	0.3	0.4	0.49	0.38	0.35	0.25
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
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
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
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
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
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	0.4	0.4	0.43
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	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	0.1 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
Chloromethane	1.1	0.9	1.4	1.5	1.1	1.1	1.3	1.1	1.2	1.1	1.2	0.85	1.1	0.97
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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
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
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
Dichlorodifluoromethane	2	2.2	2.6	2.7	2.6	2.6	2.8	2	2.5	2.7	2.6	2.1	2.1	2.2

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

Parameter (ug/m ³)	Outdoor Air Reference Locations													
	AA-1 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
Ethanol	4	5.4	10	47	4.3	3.5	4.7	0.81	4.9	4.8	8.6	6.6	4.6	3.9
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
Ethylbenzene	0.22 U	0.25	0.52	2	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
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
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
Isopropyl alcohol	1.4	1.4	1.8	4.3	1.4	0.67	1.4	0.18 U	14	1	2.5	2.8	0.87	0.63
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
Methylene chloride	5.5	3.1	0.65	1.5	0.78	7.4	15	2.1	2.8	1.7	1.9	0.7 U	4.2	0.7 U
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.2 U	0.27	0.92	1.6	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.4	0.23	0.2 U	0.2 U	0.2 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
Propylene (Propene)	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.09 U	0.13 U	0.18 U	0.09 U	0.09 U	0.35 U	0.35 U	0.18 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
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
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
Toluene	0.94	1.5	3.2	14	0.71	0.99	0.82	0.14 U	0.72	2.6	2.1	1.9	2	0.61
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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
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
Trichlorofluoromethane	1.3	1.2	1.7	2.4	1.5	2	1.7	0.92	1.3	1.5	2	1.1	1.4	1.2
Trichlorotrifluoroethane	0.68	0.53	0.5	0.47	0.64	0.48	0.51	0.27 U	0.64	0.67	0.56	0.47	0.49	0.45
Vinyl acetate	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.5 U	0.71 U	0.18 U	0.18 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	0.1 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

Parameter (ug/m ³)	Outdoor Air Reference Locations						Extraction Well - Large Retail Space							
	AA-1-100809 10/8/2009	AA-1-122909 12/29/2009	AA-1-012810 1/28/2010	AA-1-020510 2/5/2010	AA-1-021210 2/12/2010	AA-1-021910 2/19/2010	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
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	190000	91000	73000	32000	3500	19000	11000	8100
1,1,2,2-Tetrachloroethane	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	6.8 U	6.8 U	14 U	14 U	6.8 U	0.34 U	3.4 U	6.8 U
1,1,2-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	5.4 U	5.4 U	11 U	11 U	5.4 U	0.65	2.7 U	5.4 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	19000	7800	5300	4800	390	2200	1600	1900
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	7800	1800	1000	630	73	420	310	250
1,2,4-Trichlorobenzene	0.37 U	0.75 U	0.37 U	0.37 U	0.37 U	0.37 U	7.4 U	7.4 U	15 U	15 U	7.4 U	0.37 U	3.7 U	7.4 U
1,2,4-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	5 U	5 U	10 U	10 U	5 U	0.25 U	2.5 U	5 U
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	7.6 U	7.6 U	16 U	16 U	7.6 U	0.38 U	3.8 U	7.6 U
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	6 U	6 U	12 U	12 U	6 U	0.3 U	3 U	6 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	4 U	4 U	8 U	8 U	4 U	0.2 U	2 U	4 U
1,2-Dichloropropane	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	4.6 U	4.6 U	9.2 U	9.2 U	4.6 U	0.23 U	2.3 U	4.6 U
1,2-Dichlorotetrafluoroethane	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	7 U	7 U	14 U	14 U	7 U	0.35 U	3.5 U	7 U
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	5 U	5 U	10 U	10 U	5 U	0.25 U	2.5 U	5 U
1,3-Butadiene	0.23 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	2.2 U	2.2 U	4.4 U	4.4 U	2.2 U	0.11 U	2.3 U	4.5 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	6 U	6 U	12 U	12 U	6 U	0.3 U	3 U	6 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	6 U	6 U	12 U	12 U	6 U	0.3 U	3 U	6 U
2-Butanone	1.2	2.0	0.81	1.6	1.6	0.88	37	32	48	60	21	40	7.8	31
2-Hexanone	0.23	0.2 U	0.2 U	0.32	0.2 U	0.2 U	4 U	4 U	8 U	8 U	4 U	0.5	2 U	4 U
4-Ethyltoluene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	5 U	5 U	10 U	10 U	5 U	0.25 U	2.5 U	5 U
4-Methyl-2-pentanone	0.2 U	0.2 U	0.2 U	0.2 U	0.34	0.2 U	4 U	4 U	8 U	8 U	4 U	0.59	2 U	4 U
Acetone	17	11	3.5	7.6	5.0	3.7	1600	31	75	63	4.8 U	0.24 U	20	9.6 U
Benzene	0.2	0.42	0.79	0.68	0.63	0.41	14	7.3	8.4	6.4 U	3.2 U	2.5	2.7	3.2 U
Benzyl chloride	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	5.2 U	5.2 U	11 U	11 U	5.2 U	0.26 U	2.6 U	5.2 U
Bromodichloromethane	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	6.6 U	6.6 U	14 U	14 U	6.6 U	0.33 U	3.3 U	6.6 U
Bromoform	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	11 U	11 U	21 U	21 U	11 U	0.51 U	5.1 U	11 U
Bromomethane	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	3.8 U	3.8 U	7.6 U	7.6 U	3.8 U	0.19 U	1.9 U	3.8 U
Carbon disulfide	0.16 U	0.16 U	0.28	0.16 U	0.16 U	0.44	3.2 U	63	32	20	3.2 U	4.6	1.6 U	3.2 U
Carbon tetrachloride	0.46	0.39	0.42	0.39	0.31 U	0.43	6.2 U	6.2 U	13 U	13 U	6.2 U	0.57	3.1 U	6.2 U
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	4.6 U	4.6 U	9.2 U	9.2 U	4.6 U	0.23 U	2.3 U	4.6 U
Chloroethane	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	3400	1700	1200	450	42	220	110	94
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	27	17	20	17	4.8 U	8.8	12	14
Chloromethane	0.96	1.6	1.1	1.2	1.3	1.1	2 U	2 U	4 U	4 U	2 U	8.2	1 U	2 U
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	14000	4700	6300	4200	300	1600	1600	1500
cis-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	4.4 U	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U
Cyclohexane	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	3.4 U	3.4 U	6.8 U	6.8 U	3.4 U	0.17 U	1.7 U	3.4 U
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	8.6 U	8.6 U	18 U	18 U	8.6 U	0.43 U	4.3 U	8.6 U
Dichlorodifluoromethane	2.1	2.1	2.3	2.4	2.5	2.9	5 U	5 U	10 U	110	5 U	2.8	2.5 U	5 U

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Parameter (ug/m ³)	Outdoor Air Reference Locations						Extraction Well - Large Retail Space							
	AA-1-100809 10/8/2009	AA-1-122909 12/29/2009	AA-1-012810 1/28/2010	AA-1-020510 2/5/2010	AA-1-021210 2/12/2010	AA-1-021910 2/19/2010	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
Ethanol	4.9	3.8	5.4	5.1	7.2	1.2	960	81	120	120	17	21	200	96
Ethyl acetate	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	1.1	7.3 U	3.6 U	7.2 U	15 U	7.3 U	0.37 U	1.8 U	3.6 U
Ethylbenzene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	9.4	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U
Hexachlorobutadiene	0.53 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	22 U	22 U	43 U	43 U	22 U	1.1 U	5.3 U	11 U
Hexane	4.5	0.62	0.36	0.53	0.91	0.24	16	4.9	270	7.2 U	3.6 U	2.3	1.9	3.6 U
Isopropyl alcohol	0.25 U	0.54	0.56	2.7	1.5	0.80	610	2.4 U	15	9.9 U	5 U	0.25 U	22	5 U
m,p-Xylene	0.43 U	0.43 U	0.43 U	0.50	0.47	0.43 U	25	8.6 U	18 U	18 U	8.6 U	0.43 U	4.3 U	8.6 U
Methylene chloride	23	4.6	1.3	1.9	1.7	0.7 U	12	7 U	14 U	14 U	19	2.6	7 U	14 U
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	3.6 U	3.6 U	7.2 U	7.2 U	3.6 U	0.18 U	1.8 U	3.6 U
n-Heptane	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.2 U	4 U	4 U	8 U	8 U	4 U	0.2 U	2 U	4 U
o-Xylene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	8.4	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U
Propylene (Propene)	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.5 U	100	3.6 U	6.9 U	3.5 U	0.18 U	3.5 U	6.9 U
Styrene	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	4.2 U	4.2 U	8.4 U	8.4 U	4.2 U	0.21 U	2.1 U	4.2 U
Tetrachloroethene	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	140	60	430	540	47	110	110	260
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19	77	77	150	180	66	110	1.5 U	96
Toluene	0.5	0.78	0.94	0.64	0.97	0.46	36	3.8 U	7.6 U	7.6 U	3.8 U	0.59	3.4	4.7
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	110	61	47	47	4.6	33	29	34
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	4.4 U	4.4 U	8.8 U	8.8 U	4.4 U	0.22 U	2.2 U	4.4 U
Trichloroethene	0.27 U	0.27 U	0.27 U	0.27 U	0.30	0.27 U	36000	17000	26000	13000	1400	6200	4000	3600
Trichlorofluoromethane	1.5	2.2	1.2	1.2	1.6	1.5	9900	2300	1800	1000	98	600	1800	1400
Trichlorotrifluoroethane	0.46	0.54	0.49	0.55	0.54	0.54	7.6 U	7.6 U	16 U	16 U	7.6 U	0.74	3.8 U	7.6 U
Vinyl acetate	0.71 U	0.36 U	0.71 U	0.71 U	0.71 U	0.71 U	15 U	3.6 U	7.2 U	29 U	15 U	0.71 U	7.1 U	15 U
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	110	20	10	5.2 U	2.6 U	3.4	1.3 U	2.6 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 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-1- 030609 3/6/2009	EW-1- 033109 3/31/2009	EW-2- 030609 3/6/2009	EW-2- 033109 3/31/2009	EW-3- 030609 3/6/2009	EW-3- 033109 3/31/2009	EW-4- 030609 3/6/2009	EW-4- 033109 3/31/2009
1,1,1-Trichloroethane	7900	6800	1500	2500	150	1200	59000	66000	26000	30000	54000	72000	11000	14000
1,1,2,2-Tetrachloroethane	14 U	14 U	0.68 U	6.8 U	0.34 U	0.68 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	6.8 U	1.7 U	6.8 U
1,1,2-Trichloroethane	11 U	11 U	0.54 U	5.4 U	0.27 U	0.54 U	6.4	10	5.4 U	5.4 U	5.4 U	5.4 U	1.4 U	5.4 U
1,1-Dichloroethane	1900	1700	280	370	31	310	4100	4400	5700	7000	1600	2300	690	1400
1,1-Dichloroethene	260	280	52	66	7.3	62	570	1200	330	640	340	560	97	210
1,2,4-Trichlorobenzene	15 U	15 U	0.74 U	7.4 U	0.37 U	0.74 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	7.4 U	1.9 U	7.4 U
1,2,4-Trimethylbenzene	10 U	10 U	0.5 U	5 U	0.25 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	5 U
1,2-Dibromoethane (EDB)	16 U	16 U	0.76 U	7.6 U	0.38 U	0.76 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	7.6 U
1,2-Dichlorobenzene	12 U	12 U	0.6 U	6 U	0.3 U	0.6 U	6 U	6 U	6 U	6 U	6 U	6 U	1.5 U	6 U
1,2-Dichloroethane	8 U	8 U	0.4 U	4 U	0.2 U	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	1 U	4 U
1,2-Dichloropropane	9.2 U	9.2 U	0.46 U	4.6 U	0.23 U	0.46 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	4.6 U
1,2-Dichlorotetrafluoroethane	14 U	14 U	0.7 U	7 U	0.35 U	0.7 U	7 U	7 U	7 U	7 U	7 U	7 U	1.8 U	7 U
1,3,5-Trimethylbenzene	10 U	10 U	0.5 U	5 U	0.25 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	5 U
1,3-Butadiene	8.9 U	8.9 U	0.45 U	4.5 U	0.23 U	0.45 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.55 U	2.2 U
1,3-Dichlorobenzene	12 U	12 U	0.6 U	6 U	0.3 U	0.6 U	6 U	6 U	6 U	6 U	6 U	6 U	1.5 U	6 U
1,4-Dichlorobenzene	12 U	12 U	0.6 U	6 U	0.3 U	0.6 U	6 U	6 U	6 U	6 U	6 U	6 U	1.5 U	6 U
2-Butanone	30	21	4	11	10	9.0	3.5	8.9	12	11	36	10	36	6.4
2-Hexanone	8 U	8 U	0.4 U	4 U	0.2 U	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	1 U	4 U
4-Ethyltoluene	10 U	10 U	0.5 U	5 U	0.25 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.3 U	5 U
4-Methyl-2-pentanone	8 U	8 U	0.4 U	4 U	0.28	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	1 U	4 U
Acetone	20 U	20 U	31	9.6 U	13	0.96 U	35	16	9.6 U	9.6 U	53	24	26	12
Benzene	6.4 U	6.4 U	0.61	3.2 U	0.63	0.43	5.3	11	5.6	7.8	3.2 U	6.8	1.4	3.2 U
Benzyl chloride	11 U	11 U	0.52 U	5.2 U	0.26 U	0.52 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	1.3 U	5.2 U
Bromodichloromethane	14 U	14 U	0.66 U	6.6 U	0.33 U	0.66 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	1.7 U	6.6 U
Bromoform	21 U	21 U	1.1 U	11 U	0.51 U	1.1 U	11 U	11 U	11 U	11 U	11 U	11 U	2.6 U	11 U
Bromomethane	7.6 U	7.6 U	0.38 U	3.8 U	0.19 U	0.38 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	0.95 U	3.8 U
Carbon disulfide	6.4 U	6.4 U	4.3	3.2 U	0.17	3.8	3.2 U	3.2 U	27	25	3.2 U	3.2 U	1.8	3.2 U
Carbon tetrachloride	13 U	13 U	0.62 U	6.2 U	0.38	0.62 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	1.6 U	6.2 U
Chlorobenzene	9.2 U	9.2 U	0.46 U	4.6 U	0.23 U	0.46 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	1.2 U	4.6 U
Chloroethane	92	88	9.8	11	1.3	9.9	170	250	700	590	41	44	17	33
Chloroform	11	11	4.1	5.8	0.49	6.2	20	34	9.6	15	13	23	3.6	7.5
Chloromethane	4 U	4 U	0.2 U	2 U	0.1 U	0.2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U
cis-1,2-Dichloroethene	1300	1200	190	280	21	240	2000	2200	6100	7600	610	1200	560	1300
cis-1,3-Dichloropropene	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U
Cyclohexane	6.8 U	6.8 U	0.34 U	3.4 U	0.17 U	0.34 U	3.4 U	5.7	8.4	8.8	3.4 U	3.4 U	0.85 U	3.4 U
Dibromochloromethane	18 U	18 U	0.86 U	8.6 U	0.43 U	0.86 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	8.6 U
Dichlorodifluoromethane	10 U	10 U	2.4	5 U	2.2	2.7	5 U	170	5 U	5 U	5.4	7	2.6	5 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 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-1- 030609 3/6/2009	EW-1- 033109 3/31/2009	EW-2- 030609 3/6/2009	EW-2- 033109 3/31/2009	EW-3- 030609 3/6/2009	EW-3- 033109 3/31/2009	EW-4- 030609 3/6/2009	EW-4- 033109 3/31/2009
Ethanol	32	33	39	60	23	62	33	40	12	8.3	39	1.8 U	8.6	1.8 U
Ethyl acetate	7.2 U	7.2 U	0.36 U	3.6 U	0.18 U	0.36 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.9 U	3.6 U
Ethylbenzene	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U
Hexachlorobutadiene	22 U	22 U	1.1 U	11 U	0.53 U	1.1 U	22 U	22 U	22 U	22 U	22 U	22 U	5.4 U	22 U
Hexane	7.2 U	7.2 U	0.36 U	3.6 U	0.74	0.36 U	3.6 U	3.6 U	3.6 U	6.6	3.6 U	3.6 U	3.2	3.6 U
Isopropyl alcohol	9.9 U	9.9 U	2.3	5 U	1.0	0.5 U	28	2.4 U	2.4 U	2.4 U	26	5.9	7.5	7.1
m,p-Xylene	18 U	18 U	0.86 U	8.6 U	0.49	0.86 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	2.2 U	8.6 U
Methylene chloride	28 U	28 U	1.4 U	14 U	2.6	1.4 U	7 U	19	7 U	17	7 U	13	19	12
Methyl-t-butyl ether	7.2 U	7.2 U	0.36 U	3.6 U	0.18 U	0.36 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.9 U	3.6 U
n-Heptane	8 U	8 U	0.4 U	4 U	0.2 U	0.4 U	4 U	4 U	4 U	4 U	4 U	4 U	1 U	4 U
o-Xylene	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U
Propylene (Propene)	6.9 U	14 U	0.69 U	6.9 U	0.35 U	0.69 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.45 U	1.8 U
Styrene	8.4 U	8.4 U	0.42 U	4.2 U	0.21 U	0.42 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	1.1 U	4.2 U
Tetrachloroethene	67	72	4.6	200	4.8	45	600	1200	2300	2500	73	310	31	170
Tetrahydrofuran	85	67	15	32	28	43	6.3	21	19	3 U	32	14	37	5.1
Toluene	7.6 U	7.6 U	0.38 U	3.8 U	3.6	0.38 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	1.4	3.8 U
trans-1,2-Dichloroethene	30	26	3.4	4.6	0.36	4.1	9.2	23	69	180	4 U	8.8	2.5	8
trans-1,3-Dichloropropene	8.8 U	8.8 U	0.44 U	4.4 U	0.22 U	0.44 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	1.1 U	4.4 U
Trichloroethene	4000	4300	390	1400	58	460	31000	42000	25000	25000	8600	19000	2700	5500
Trichlorofluoromethane	1500	1500	260	230	29	230	520	540	1300	1800	430	840	240	370
Trichlorotrifluoroethane	16 U	16 U	0.76 U	7.6 U	0.53	0.76 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	7.6 U	1.9 U	7.6 U
Vinyl acetate	29 U	29 U	1.5 U	15 U	0.71 U	1.5 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	3.6 U	0.9 U	3.6 U
Vinyl chloride	5.2 U	5.2 U	0.26 U	2.6 U	0.13 U	0.26 U	2.7	4.8	9.4	8.1	2.6 U	2.6 U	0.65	2.6 U

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

Post Treatment - Large Retail Space							
Parameter (ug/m ³)	Post carbon-020309 2/3/2009	POST CARBON-021109 2/11/2009	POST CARBON-021809 2/18/2009	POST CARBON-022609 2/26/2009	POST CARBON-041409 4/14/2009	POST CARBON-100809 10/8/2009	Post-Carbon-010810 1/8/2010
1,1,1-Trichloroethane	1	15	45	1.9	13000	0.56	450
1,1,2,2-Tetrachloroethane	0.34 U	1.7 U	0.68 U	0.68 U	68 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.27 U	1.4 U	0.54 U	0.54 U	54 U	0.27 U	0.27 U
1,1-Dichloroethane	0.2 U	1 U	5.4	11000	490	370	610
1,1-Dichloroethene	0.2 U	1 U	0.4 U	6400	96	78	87
1,2,4-Trichlorobenzene	0.37 U	1.9 U	0.74 U	0.74 U	74 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.25 U	1.3 U	0.5 U	0.5 U	50 U	0.25 U	0.25 U
1,2-Dibromoethane (EDB)	0.38 U	1.9 U	0.76 U	0.76 U	76 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.3 U	1.5 U	0.6 U	0.6 U	60 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	1 U	0.4 U	0.4 U	40 U	0.2 U	0.2 U
1,2-Dichloropropane	0.23 U	1.2 U	0.46 U	0.46 U	46 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.35 U	1.8 U	0.7 U	0.7 U	70 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	2.1	1.3 U	0.5 U	0.5 U	50 U	0.25 U	0.25 U
1,3-Butadiene	0.11 U	0.55 U	0.22 U	0.22 U	22 U	0.23 U	0.23 U
1,3-Dichlorobenzene	2.9	1.5 U	0.6 U	0.6 U	60 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	1.5 U	0.6 U	0.6 U	60 U	0.3 U	0.3 U
2-Butanone	10	6.3	9.4	5.5	330	1.9	2.0
2-Hexanone	0.2 U	1 U	0.4 U	0.4 U	13000	0.27	0.34
4-Ethyltoluene	2.1	1.3 U	0.5 U	0.5 U	50 U	0.25 U	0.25 U
4-Methyl-2-pentanone	5	1 U	0.4 U	0.4 U	40 U	0.2 U	0.2 U
Acetone	1200	11	19	12	430	3.6	5.7
Benzene	1.3	0.8 U	0.32 U	0.32 U	32 U	0.16 U	0.16 U
Benzyl chloride	0.26 U	1.3 U	0.52 U	0.52 U	52 U	0.26 U	0.26 U
Bromodichloromethane	0.33 U	1.7 U	0.66 U	0.66 U	66 U	0.33 U	0.33 U
Bromoform	0.51 U	2.6 U	1.1 U	1.1 U	110 U	0.51 U	0.51 U
Bromomethane	0.19 U	0.95 U	0.38 U	0.38 U	38 U	0.19 U	0.19 U
Carbon disulfide	0.16 U	0.8 U	4.1	27	250	0.16 U	0.20
Carbon tetrachloride	0.38	1.6 U	0.62 U	0.62 U	62 U	0.31 U	0.31 U
Chlorobenzene	0.23 U	1.2 U	0.46 U	0.46 U	46 U	0.23 U	0.23 U
Chloroethane	0.13 U	5100	1800	480	64	19	10
Chloroform	0.24 U	1.2 U	0.48 U	0.67	48 U	0.24 U	6.8
Chloromethane	0.59	0.5 U	0.2 U	0.2 U	23	0.1 U	0.1 U
cis-1,2-Dichloroethene	0.27	1 U	3.9	5200	820	230	570
cis-1,3-Dichloropropene	0.22 U	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U
Cyclohexane	0.93	0.85 U	0.34 U	0.34 U	34 U	0.17 U	0.17 U
Dibromochloromethane	0.43 U	2.2 U	0.86 U	0.86 U	86 U	0.43 U	0.43 U
Dichlorodifluoromethane	0.76	4.1	3	2.4	50 U	1.7	1.9

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

Post Treatment - Large Retail Space							
Parameter (ug/m ³)	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
Ethanol	740	36	25	9.8	110	0.38 U	2.8
Ethyl acetate	0.37 U	0.9 U	0.36 U	0.73 U	73 U	0.18 U	0.18 U
Ethylbenzene	10	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U
Hexachlorobutadiene	1.1 U	5.4 U	2.2 U	2.2 U	220 U	0.53 U	0.53 U
Hexane	3	0.9 U	46	0.36 U	36 U	0.18 U	0.23
Isopropyl alcohol	450	2.9	3.1	47	290	0.25 U	1.4
m,p-Xylene	27	2.2 U	0.86 U	0.86 U	86 U	0.43 U	0.43 U
Methylene chloride	20	76	17	3	810	0.7 U	0.72
Methyl-t-butyl ether	0.18 U	0.9 U	0.36 U	0.36 U	36 U	0.18 U	0.18 U
n-Heptane	1.8	1 U	0.4 U	0.4 U	40 U	0.2 U	0.2 U
o-Xylene	9.5	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U
Propylene (Propene)	0.18 U	98	0.18 U	0.35 U	35 U	0.35 U	0.35 U
Styrene	3.4	1.1 U	0.42 U	0.42 U	42 U	0.21 U	0.21 U
Tetrachloroethene	0.72	1.7 U	1.1	0.68 U	68 U	0.52	1.9
Tetrahydrofuran	6.8	22	40	18	210	4.1	6.5
Toluene	29	0.95 U	0.65	0.38 U	38 U	0.19 U	0.36
trans-1,2-Dichloroethene	0.2 U	1 U	0.4 U	28	40 U	7.7	15
trans-1,3-Dichloropropene	0.22 U	1.1 U	0.44 U	0.44 U	44 U	0.22 U	0.22 U
Trichloroethene	2	11	16	2.7	54 U	1	1.0
Trichlorofluoromethane	0.71	1.4 U	23	6700	84	180	210
Trichlorotrifluoroethane	1.3	1.9 U	0.76 U	0.76 U	76 U	0.38 U	0.51
Vinyl acetate	0.71 U	0.9 U	0.36 U	1.5 U	150 U	0.71 U	0.71 U
Vinyl chloride	0.13 U	30	13	4.5	26 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

Parameter (ug/m ³)	CT IACTIND 2003 (ug/m ³)	Indoor Air - Large Retail Space													
		IA-1 1/16/2009	IA-1- 020309 2/3/2009	IA-1- 021109 2/11/2009	IA-1- 021809 2/18/2009	IA-1- 022609 2/26/2009	IA-1- 030609 3/6/2009	IA-1- 033109 3/31/2009	IA-1- 041409 4/14/2009	IA-1- 042409 4/24/2009	IA-1- 091709 9/17/2009	IA-1- 092409 9/24/2009	IA-1- 100109 10/1/2009	IA-1- 100809 10/8/2009	
1,1,1-Trichloroethane	500	10	0.56	1.1	0.99	0.35	1.8	1.5	1.4	2	0.27 U	0.27 U	0.27 U	0.27 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	0.34 U	0.24 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	0.27 U	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	
1,1-Dichloroethane	430	0.71	0.2 U	0.2 U	0.2 U	0.27	0.32	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,1-Dichloroethene	20	0.38	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,2,4-Trichlorobenzene	NA	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.26 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	
1,2,4-Trimethylbenzene	52	0.25 U	0.36	0.7	0.77	0.25 U	0.25 U	0.25 U	0.18 U	0.48	0.29	0.35	0.28	0.51	
1,2-Dibromoethane (EDB)	0.038	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	
1,2-Dichlorobenzene	410	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
1,2-Dichloroethane	0.31	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
1,2-Dichloropropane	0.42	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 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	0.35 U	0.25 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	0.25 U	0.18 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	0.34	0.84	0.11 U	0.11 U	0.11 U	0.08 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	
1,3-Dichlorobenzene	410	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
1,4-Dichlorobenzene	24	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	
2-Butanone	500	20	3.1	5.8	3.4	2.6	2.2	1.3	1.2	4.4	2	2.6	2.7	1.3	
2-Hexanone	NA	0.2 U	0.2 U	0.6	0.42	0.2 U	0.23	0.2 U	0.14 U	0.48	0.43	0.52	0.73	0.31	
4-Ethyltoluene	NA	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	
4-Methyl-2-pentanone	200	0.2 U	0.2 U	0.43	0.3	0.2 U	0.2 U	0.2 U	0.14 U	0.52	0.21	0.35	0.32	0.2 U	
Acetone	500	18	7.7	19	21	10	8.7	14	12	310	11	18	13	10	
Benzene	3.3	1	0.68	1.9	3	0.69	0.87	0.71	0.56	0.78	0.49	0.47	0.39	0.48	
Benzyl chloride	NA	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	
Bromodichloromethane	0.46	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	
Bromoform	7.3	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	
Bromomethane	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	
Carbon disulfide	NA	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	
Carbon tetrachloride	0.54	0.35	0.41	0.52	0.55	0.46	0.59	0.53	0.31	0.43	0.48	0.38	0.42	0.43	
Chlorobenzene	200	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	
Chloroethane	500	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.13 U	0.13 U	0.1 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	0.24 U	0.17 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	
Chloromethane	80	1.1	1	1.4	1.5	1	1	1.2	1.1	1.3	1.1	1.1	0.98	0.95	
cis-1,2-Dichloroethene	100	2	0.2 U	1	1.1	0.73	1.3	0.5	0.6	1.3	0.2 U	0.2 U	0.83	0.44	
cis-1,3-Dichloropropene	2.9	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
Cyclohexane	NA	0.17 U	0.17 U	0.49	0.61	0.17 U	0.17 U	0.17 U	0.12 U	0.34	0.18 U	0.17 U	0.17 U	0.17 U	
Dibromochloromethane	NA	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	
Dichlorodifluoromethane	500	1.8	2.1	2.6	2.8	2.6	2.6	3.1	2	8.3	2.4	2	2.3	2.1	

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

Parameter (ug/m ³)	CT IACTIND 2003 (ug/m3)	Indoor Air - Large Retail Space													
		IA-1 1/16/2009	IA-1-020309 2/3/2009	IA-1-021109 2/11/2009	IA-1-021809 2/18/2009	IA-1-022609 2/26/2009	IA-1-030609 3/6/2009	IA-1-033109 3/31/2009	IA-1-041409 4/14/2009	IA-1-042409 4/24/2009	IA-1-091709 9/17/2009	IA-1-092409 9/24/2009	IA-1-100109 10/1/2009	IA-1-100809 10/8/2009	
Ethanol	NA	5.7	8.3	14	20	9.8	7.5	18	5	39	6.2	7	6.5	8.8	
Ethyl acetate	NA	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.18 U	0.18 U	0.26 U	0.37 U	0.32	0.18 U	0.18 U	0.18 U	
Ethylbenzene	290	0.26	0.28	0.66	0.85	0.23	0.22 U	0.22 U	0.16 U	0.94	0.23	0.23	0.22 U	0.28	
Hexachlorobutadiene	NA	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	
Hexane	NA	0.92	0.74	1.2	1.6	1	0.51	0.53	0.65	1.7	0.99	1.3	0.41	0.77	
Isopropyl alcohol	NA	3.4	3.1	5.3	5.8	3.8	2	9.1	0.18 U	240	5.2	5.2	0.25 U	2.7	
m,p-Xylene	500	0.76	0.87	2.1	2.8	0.8	0.43 U	0.63	0.31 U	2.5	0.79	0.91	0.73	1	
Methylene chloride	17	2.3	33	2.3	1.8	4.4	1.1	6.7	3.5	4.8	1.6	3.6	0.7 U	0.7 U	
Methyl-t-butyl ether	190	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	
n-Heptane	NA	0.23	0.2 U	0.59	0.75	0.2 U	0.2 U	0.2 U	0.14 U	0.67	0.2 U	0.2 U	0.2 U	0.26	
o-Xylene	500	0.26	0.33	0.76	0.99	0.3	0.22 U	0.22 U	0.16 U	0.7	0.31	0.4	0.28	0.4	
Propylene (Propene)	NA	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.09 U	0.09 U	0.13 U	0.18 U	0.35 U	0.35 U	0.18 U	0.35 U	
Styrene	290	0.21 U	0.21 U	0.21	0.28	0.21 U	0.21 U	0.21 U	0.15 U	0.24	0.21 U	0.21 U	0.21 U	0.21 U	
Tetrachloroethene	5	6.6	0.57	4.2	3.2	2.6	4.9	1.5	1.9	6.1	0.34 U	0.34 U	2	1.1	
Tetrahydrofuran	NA	12	1.2	1.3	0.48	0.32	0.15 U	0.15 U	0.23	0.4	0.15 U	0.15 U	0.15 U	0.15 U	
Toluene	500	1.7	1.4	4	5.7	2.3	0.93	1.7	0.72	5.7	1.3	1.1	0.78	1.2	
trans-1,2-Dichloroethene	200	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.22 U	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	
Trichloroethene	1	4.2	0.46	1.6	1.4	0.65	1.5	0.57	0.74	1.6	0.27 U	0.27 U	1.1	0.56	
Trichlorofluoromethane	500	2.1	1.4	1.7	3.1	1.6	1.7	1.2	1.2	1.5	1.4	1.3	1.2	1.2	
Trichlorotrifluoroethane	NA	0.65	0.64	0.47	0.46	0.67	0.48	0.59	0.54	1.7	0.48	0.44	0.45	0.51	
Vinyl acetate	NA	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.18 U	0.18 U	0.5 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	
Vinyl chloride	1.9	0.26	0.13 U	0.22	0.21	0.13 U	0.19	0.13 U	0.1 U	0.16	0.13 U	0.13 U	0.17	0.13 U	

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

Indoor Air - Large Retail Space														
Parameter (ug/m ³)	IA-1-120209 12/2/2009	IA-1-010810 1/8/2010	IA-1-012810 1/28/2010	IA-1-020510 2/5/2010	IA-1-021210 2/12/2010	IA-1-021910 2/19/2010	IA-2-116/2009 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	0.24	0.27 U	0.27 U	0.76	0.30	0.88	9.9	0.63	1.1	1.1	0.44	1.4	2.1	0.27 U
1,1,2,2-Tetrachloroethane	0.24 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.24 U	0.34 U	0.34 U
1,1,2-Trichloroethane	0.19 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.19 U	0.27 U	0.27 U
1,1-Dichloroethane	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.72	0.2 U	0.2 U	0.2 U	0.32	0.14 U	0.2 U	0.2 U
1,1-Dichloroethene	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.41	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	0.52 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	0.26 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.52	0.37	0.25 U	0.26	0.25 U	0.25 U	0.25 U	0.37	0.7	0.65	0.3	0.18 U	0.25 U	0.29
1,2-Dibromoethane (EDB)	0.27 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.27 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
1,2-Dichloroethane	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
1,2-Dichloropropane	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U
1,2-Dichlorotetrafluoroethane	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.25 U	0.35 U	0.35 U
1,3,5-Trimethylbenzene	0.18	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U
1,3-Butadiene	0.17	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.11 U	0.3	0.66	0.11 U	0.08 U	0.11 U	0.23 U
1,3-Dichlorobenzene	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.21 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U	0.3 U
2-Butanone	2.7	1.6	0.3 U	2.4	1.1	1.2	21	4.1	4.6	3	2.9	0.95	1.6	1.1
2-Hexanone	0.71	0.36	0.2 U	0.47	0.2 U	0.27	0.2 U	0.2 U	0.35	0.26	0.2 U	0.14 U	0.2 U	0.25
4-Ethyltoluene	0.18	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U	0.25 U	0.25 U
4-Methyl-2-pentanone	0.34	0.2 U	0.2 U	0.2 U	0.22	0.2 U	0.2 U	0.2 U	0.35	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
Acetone	13	12	2.0	19	7.3	8.5	17	9.6	14	18	9.7	13	39	6.2
Benzene	1.1	1.2	0.16 U	0.98	0.64	0.53	1	0.67	1.8	3	0.77	0.58	0.44	0.41
Benzyl chloride	0.19 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.19 U	0.26 U	0.26 U
Bromodichloromethane	0.24 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.24 U	0.33 U	0.33 U
Bromoform	0.36 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.36 U	0.51 U	0.51 U
Bromomethane	0.14 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.14 U	0.19 U	0.19 U
Carbon disulfide	0.12 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U	0.16 U
Carbon tetrachloride	0.48	0.43	0.31 U	0.40	0.31 U	0.45	0.33	0.41	0.55	0.57	0.48	0.41	0.41	0.44
Chlorobenzene	0.17 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 U	0.23 U	0.23 U
Chloroethane	0.1 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.42	0.13 U	0.13 U	0.1 U	0.13 U	0.13 U
Chloroform	0.17 U	0.26	0.24 U	0.47	0.43	0.24 U	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	1.1	1.4	1.3	1.3	1.2	1.1	1	1.3	1.3	1	1.1	1.2	0.91
cis-1,2-Dichloroethene	0.57	0.2 U	0.2 U	0.2 U	0.2 U	0.56	2.1	0.24	1.1	1.1	0.95	0.59	1.6	0.2 U
cis-1,3-Dichloropropene	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U
Cyclohexane	0.28	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.44	0.61	0.17 U	0.12 U	0.22	0.17 U
Dibromochloromethane	0.31 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.31 U	0.43 U	0.43 U
Dichlorodifluoromethane	1.6	3.1	2.4	2.4	2.6	3.0	1.8	2.2	2.6	2.9	2.7	2.1	2.9	2

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Ethanol	10	8.4	7.0	29	19	43	5.5	8.8	12	17	7.9	4.9	7.5	4.8
Ethyl acetate	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 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	0.46	0.40	0.22 U	0.32	0.22 U	0.22 U	0.26	0.28	0.65	0.79	0.3	0.18	0.22 U	0.22 U
Hexachlorobutadiene	0.75 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 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	0.78	0.74	0.18 U	0.82	1.3	0.45	0.88	0.57	1.3	1.6	0.69	0.72	0.74	0.41
Isopropyl alcohol	1.8	2.4	0.25 U	9.4	0.25 U	1.6	3.7	3.1	4.5	4.5	4.7	5.6	28	340
m,p-Xylene	1.4	1.1	0.43 U	1.0	0.43 U	0.43 U	0.76	0.88	2	2.6	0.93	0.61	0.63	0.71
Methylene chloride	2.9	0.7 U	1.4	1.5	1.9	0.7 U	2	30	4	1.6	1.8	4	4.2	0.7 U
Methyl-t-butyl ether	0.13 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.13 U	0.18 U	0.18 U
n-Heptane	0.42	0.35	0.2 U	0.2 U	0.2 U	0.2 U	0.23	0.2 U	0.58	0.73	0.22	0.15	0.2 U	0.2 U
o-Xylene	0.52	0.44	0.22 U	0.38	0.22 U	0.22 U	0.3	0.34	0.76	0.89	0.34	0.22	0.22	0.27
Propylene (Propene)	0.25 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.13 U	0.18 U	0.35 U
Styrene	0.19	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.23	0.21 U	0.15 U	0.21 U	0.21 U
Tetrachloroethene	3.2	0.34 U	0.34 U	0.34 U	0.34 U	1.2	7.5	0.64	4.2	3.2	3.3	2.2	7.6	0.34 U
Tetrahydrofuran	0.11 U	0.15 U	0.15 U	0.15 U	0.15 U	0.22	12	1.2	1.2	0.49	0.41	0.21	0.28	0.15 U
Toluene	2.8	2.1	0.19 U	0.82	0.69	0.58	1.7	1.3	4	5.5	2.3	1	1.2	1.1
trans-1,2-Dichloroethene	0.14 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.16 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.16 U	0.22 U	0.22 U
Trichloroethene	0.69	0.27 U	0.27 U	0.27 U	0.31	0.39	4.4	0.56	1.6	1.4	0.91	0.77	1.9	0.27 U
Trichlorofluoromethane	1.3	2.5	0.81	1.3	1.5	1.5	2	1.2	1.7	2.8	1.6	1.3	1.3	1.2
Trichlorotrifluoroethane	0.52	0.63	0.38 U	0.71	0.63	0.55	0.69	0.58	0.49	0.46	0.64	0.56	0.74	0.5
Vinyl acetate	0.25 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.18 U	0.18 U	0.71 U	0.5 U	0.71 U	0.71 U
Vinyl chloride	0.1 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27	0.13 U	0.18	0.2	0.13 U	0.1 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-3-1/16/2009	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
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.44	0.73	0.27 U	0.27 U	9.8	0.57	1.1	1.1	0.28	1.5	2.2
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	0.24 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	0.27 U	0.27 U	0.19 U	0.27 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.68	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.35	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 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	0.37 U	0.37 U	0.26 U	0.37 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	0.36	0.68	0.61	0.25 U	0.18 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	0.38 U	0.38 U	0.27 U	0.38 U
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 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	0.23 U	0.17 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	0.35 U	0.35 U	0.25 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	0.18 U	0.25 U
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	0.11 U	0.3	0.77	0.11 U	0.08 U	0.11 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.34	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U	0.3 U
2-Butanone	2.3	0.81	1	2.1	0.70	0.44	0.3 U	20	4.2	4.6	4	1.7	1.6	2.5
2-Hexanone	0.54	0.2 U	0.26	0.51	0.2 U	0.2 U	0.2 U	0.2 U	0.26	0.33	0.3	0.2 U	0.14 U	0.38
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	0.18 U	0.25 U
4-Methyl-2-pentanone	0.39	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.29	0.34	0.2 U	0.14 U	0.22
Acetone	17	11	8.8	17	7.8	3.1	0.48 U	18	12	17	24	9.7	7.5	50
Benzene	0.47	0.39	0.54	1.2	0.86	0.67	0.16 U	1	0.71	1.9	3.1	0.69	0.6	0.46
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	0.19 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	0.33 U	0.33 U	0.24 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	0.51 U	0.51 U	0.36 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	0.19 U	0.19 U	0.14 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	0.16 U	0.16 U	0.12 U	0.16 U
Carbon tetrachloride	0.4	0.46	0.42	0.31 U	0.40	0.31 U	0.31 U	0.34	0.45	0.52	0.6	0.43	0.22 U	0.42
Chlorobenzene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.17 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	0.43	0.13 U	0.13 U	0.1 U	0.13 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	0.24 U	0.17 U	0.24 U
Chloromethane	1.1	0.96	0.98	1.2	1.3	1.3	1.4	1.1	0.98	1.2	1.4	1.1	1.2	1.2
cis-1,2-Dichloroethene	0.2 U	0.79	0.48	0.58	0.2 U	0.2 U	0.2 U	1.9	0.2 U	1.1	1.1	0.55	0.61	1.5
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	0.16 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	0.46	0.6	0.17 U	0.15	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	0.43 U	0.43 U	0.31 U	0.43 U
Dichlorodifluoromethane	2.1	2.3	2.1	2.2	2.5	2.6	3.0	1.9	2.3	2.5	2.9	2.6	2	2.9

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-3-1/16/2009	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
Ethanol	6.7	7.8	6.2	14	35	17	20	5.5	9.2	13	18	7.9	4.2	9
Ethyl acetate	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.37 U	0.37 U	0.18 U	0.18 U	0.37 U	0.26 U	0.37 U
Ethylbenzene	0.22	0.22 U	0.31	0.42	0.34	0.22 U	0.22 U	0.25	0.29	0.64	0.77	0.22 U	0.16	0.22 U
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	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U	1.1 U
Hexane	0.42	0.71	1	0.61	0.64	1.4	0.18 U	0.94	0.87	1.3	1.9	3.7	0.37	0.77
Isopropyl alcohol	5.7	3.3	0.25 U	0.25 U	3.6	0.25 U	0.25 U	3.5	4.1	5.5	4.9	3.1	0.18 U	33
m,p-Xylene	0.93	0.78	1.1	1.3	1.1	0.43 U	0.43 U	0.75	0.9	2	2.6	0.65	0.57	0.66
Methylene chloride	0.7 U	0.7 U	0.7 U	1.4	0.90	1.9	0.7 U	2.2	31	3.1	3.5	33	1.2	3.6
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	0.13 U	0.18 U
n-Heptane	0.2 U	0.2 U	0.34	0.83	0.2 U	0.2 U	0.2 U	0.22	0.2 U	0.61	0.77	0.2 U	0.14 U	0.2 U
o-Xylene	0.42	0.3	0.44	0.46	0.40	0.22 U	0.22 U	0.28	0.33	0.79	0.86	0.23	0.22	0.24
Propylene (Propene)	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.13 U	0.18 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	0.21 U	0.21 U	0.21 U	0.15 U	0.21 U
Tetrachloroethene	0.35	1.7	1	2.3	0.34 U	0.34 U	0.34 U	6.1	0.56	4.3	3.3	1.9	2.2	7.1
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	1.6	0.15 U	0.15 U	0.15 U	12	1.1	1.3	0.49	0.15 U	0.24	0.15 U
Toluene	1.1	1.2	1.5	2.4	0.93	0.64	0.19 U	1.7	1.5	4.7	5.8	2.1	1	1.2
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.14 U	0.2 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	0.16 U	0.22 U
Trichloroethene	0.27 U	0.99	0.57	0.79	0.27 U	0.27 U	0.27 U	3.9	0.49	1.7	1.5	0.53	0.77	1.8
Trichlorofluoromethane	1.2	1.2	1.2	1.2	1.3	1.4	1.1	1.9	1.3	1.8	2.8	1.8	1.2	1.3
Trichlorotrifluoroethane	0.47	0.46	0.54	0.46	0.53	0.61	0.38 U	0.6	0.58	0.49	0.44	0.69	0.53	0.74
Vinyl acetate	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	0.18 U	0.18 U	0.71 U	0.5 U	0.71 U
Vinyl chloride	0.13 U	0.16	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.23	0.13 U	0.19	0.21	0.13 U	0.1 U	0.17

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-3-091709 9/17/2009	IA-3-092409 9/24/2009	IA-3-100109 10/1/2009	IA-3-100809 10/8/2009	IA-3-012810 1/28/2010	IA-3-020510 2/5/2010	IA-3-021210 2/12/2010	IA-3-021910 2/19/2010	IA-4-11/16/2009	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
1,1,1-Trichloroethane	0.27 U	0.27 U	0.27 U	0.27 U	0.45	0.71	0.29	0.86	10	0.62	1.1	1.1	0.45	1.5
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	0.24 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	0.19 U
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.73	0.2 U	0.2 U	0.2 U	0.31	0.14 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.42	0.2 U	0.2 U	0.2 U	0.2 U	0.14 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	0.37 U	0.37 U	0.37 U	0.26 U
1,2,4-Trimethylbenzene	0.29	0.4	0.25 U	0.39	0.44	0.25 U	0.25 U	0.25 U	0.26	0.37	0.74	0.65	0.29	0.18 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	0.38 U	0.38 U	0.27 U
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.23 U	0.23 U	0.17 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	0.35 U	0.25 U
1,3,5-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.42	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.18 U
1,3-Butadiene	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.11 U	0.11 U	0.33	0.77	0.11 U	0.08 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.21 U
2-Butanone	2	2.6	0.7	1.5	1.9	2.0	1.2	1.6	21	4.4	6	3.2	2.5	1.1
2-Hexanone	0.51	0.58	0.2 U	0.37	0.52	0.39	0.22	0.39	0.2 U	0.33	0.73	0.39	0.2 U	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	0.25 U	0.25 U	0.18 U
4-Methyl-2-pentanone	0.2 U	0.42	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.43	0.28	0.2 U	0.14 U
Acetone	11	19	6.7	11	14	21	6.7	7.3	17	10	15	20	7.8	7.9
Benzene	0.41	0.5	0.39	0.46	1.3	0.86	0.67	0.53	1.1	0.68	1.8	3	0.76	0.59
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	0.19 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	0.33 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	0.51 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	0.19 U	0.19 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	0.12 U
Carbon tetrachloride	0.4	0.43	0.4	0.42	0.31 U	0.42	0.31 U	0.43	0.4	0.43	0.5	0.58	0.46	0.22 U
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	0.17 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	0.41	0.13 U	0.13 U	0.1 U
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.53	0.48	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.26	0.17 U
Chloromethane	0.91	1.1	0.97	1	1.2	2.9	1.3	1.2	1.2	0.99	1.4	1.3	1	1.1
cis-1,2-Dichloroethene	0.2 U	0.2 U	0.94	0.49	0.59	0.2 U	0.2 U	0.59	2.4	0.2 U	1.1	1.1	0.98	0.61
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	0.22 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	0.44	0.64	0.17 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	0.43 U	0.43 U	0.31 U
Dichlorodifluoromethane	2.1	2.1	2.2	2.2	2.3	2.5	2.5	3.0	1.9	2.2	2.5	2.8	2.6	2.1

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-3-091709 9/17/2009	IA-3-092409 9/24/2009	IA-3-100109 10/1/2009	IA-3-100809 10/8/2009	IA-3-012810 1/28/2010	IA-3-020510 2/5/2010	IA-3-021210 2/12/2010	IA-3-021910 2/19/2010	IA-4 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
Ethanol	6.2	7.5	4.5	5	13	40	17	38	5.3	8.9	12	18	8	5.2
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	0.37 U	0.37 U	0.18 U	0.19	0.37 U	0.26 U
Ethylbenzene	0.22 U	0.23	0.22 U	0.24	0.43	0.22 U	0.22 U	0.22 U	0.25	0.29	0.65	0.78	0.29	0.16
Hexachlorobutadiene	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	1.1 U	1.1 U	1.1 U	1.1 U	0.75 U
Hexane	0.96	0.47	0.37	0.71	0.55	0.44	1.0	0.29	0.9	0.66	1.2	1.7	0.66	0.43
Isopropyl alcohol	180	5.9	0.25 U	0.25 U	0.25 U	9.9	0.25 U	2.0	3.5	3.3	4.7	4.8	3.9	0.18 U
m,p-Xylene	0.7	0.99	0.65	0.87	1.2	0.69	0.43 U	0.43 U	0.76	0.89	2.1	2.6	0.89	0.58
Methylene chloride	2.4	0.7 U	0.7 U	0.7 U	1.4	0.7 U	2.3	0.7 U	2.3	29	1.7	2.5	1.3	1.9
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	0.13 U
n-Heptane	0.2 U	0.2 U	0.2 U	0.24	0.73	0.2 U	0.2 U	0.2 U	0.23	0.2 U	0.58	0.79	0.21	0.14 U
o-Xylene	0.26	0.45	0.27	0.34	0.44	0.26	0.22 U	0.22 U	0.27	0.33	0.78	0.87	0.33	0.22
Propylene (Propene)	0.35 U	0.35 U	0.18 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.18 U	0.18 U	0.09 U	0.09 U	0.18 U	0.13 U
Styrene	0.21 U	0.21 U	0.21 U	0.21 U	0.40	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22	0.23	0.21 U	0.15 U
Tetrachloroethene	0.34 U	0.34 U	2	1.1	2.2	0.34 U	0.34 U	1.3	7.3	0.58	4.4	3.4	3.4	2.4
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.40	0.15 U	0.15 U	0.15 U	13	1.2	1.3	0.47	0.34	0.21
Toluene	1.2	1.1	0.73	1.1	2.5	0.78	0.61	0.46	1.8	1.3	4.3	5.8	2.3	1
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.22 U	0.16 U
Trichloroethene	0.27 U	0.27 U	1.1	0.54	0.75	0.27 U	0.27 U	0.40	4.7	0.48	1.7	1.5	0.88	0.78
Trichlorofluoromethane	1.4	1.2	1.2	1.2	1.2	1.3	1.4	1.6	2	1.3	1.6	3	1.7	1.3
Trichlorotrifluoroethane	0.51	0.46	0.49	0.47	0.49	0.52	0.57	0.52	0.72	0.59	0.51	0.45	0.57	0.54
Vinyl acetate	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	0.71 U	0.18 U	0.18 U	0.71 U	0.5 U
Vinyl chloride	0.13 U	0.13 U	0.18	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.29	0.13 U	0.2	0.22	0.13 U	0.1 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-4-042409 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	LRAIR01 5/15/2009	LRAIR02 5/15/2009	LRAIR03 5/15/2009	LRAIR04 5/15/2009	LRAIR05 5/15/2009
1,1,1-Trichloroethane	2.2	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.76	0.29	0.89	0.45	0.52	0.65	0.57	0.51
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
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
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	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	0.25 U	0.29	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	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.23 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	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	0.25 U	0.25 U	0.25 U
1,3-Butadiene	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	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone	1.6	1.5	2	1.3	1.2	0.3 U	0.69	1.2	0.50	3.3	3.4	2.1	2.6	2
2-Hexanone	0.2 U	0.29	0.45	0.32	0.27	0.2 U	0.2 U	0.2 U	0.2 U	0.73	0.66	0.38	0.51	0.37
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
4-Methyl-2-pentanone	0.2 U	0.2 U	0.32	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.42	0.39	0.32	0.36	0.54
Acetone	20	9.3	16	9.3	10	2.3	4.9	5.9	2.5	12	13	10	11	8.5
Benzene	0.44	0.4	0.43	0.37	0.48	0.16 U	0.88	0.66	0.54	0.54	0.6	0.67	0.55	0.56
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
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	0.33 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	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	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	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.45	0.41	0.4	0.46	0.4	0.31 U	0.43	0.31 U	0.42	0.7	0.68	0.71	0.68	0.68
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
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
Chloroform	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	0.24 U	0.24 U
Chloromethane	1.2	0.9	1.1	1	1	1.3	1.3	1.3	1.2	1	0.98	1	0.95	1
cis-1,2-Dichloroethene	1.7	0.2 U	0.2 U	0.84	0.48	0.2 U	0.2 U	0.2 U	0.59	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	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	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	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.4	2.1	2	2.2	2.2	2.4	2.5	2.6	3.0	2.5	2.3	2.6	2.4	2.7

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-4-042409 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	LRAIR01 5/15/2009	LRAIR02 5/15/2009	LRAIR03 5/15/2009	LRAIR04 5/15/2009	LRAIR05 5/15/2009
Ethanol	5.5	6	6.5	4.9	5.6	7.7	34	17	31	65	9	6.5	5.9	6
Ethyl acetate	0.37 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Ethylbenzene	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	0.22 U	0.22 U	0.22 U	0.22 U
Hexachlorobutadiene	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	1.1 U	1.1 U	1.1 U	1.1 U
Hexane	0.34	0.42	2.2	0.49	0.93	0.18 U	0.37	1.3	0.49	1.1	0.21	0.18 U	0.18	0.24
Isopropyl alcohol	13	5.6	5.2	0.25 U	0.25 U	0.96	0.25 U	0.25 U	1.9	3.3	3.4	3.7	3.5	3.6
m,p-Xylene	0.49	0.61	0.93	0.69	1	0.43 U	0.81	0.43 U	0.43 U	0.58	0.57	0.58	0.55	0.49
Methylene chloride	2.2	0.7 U	9.7	0.7 U	0.7 U	1.5	0.7 U	1.9	0.71	5.9	1.5	1.5	1.6	1.9
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
n-Heptane	0.2 U	0.2 U	0.2 U	0.2 U	0.26	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	0.22 U	0.22 U	0.42	0.28	0.4	0.22 U	0.31	0.22 U	0.22 U	0.28	0.28	0.27	0.27	0.25
Propylene (Propene)	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	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Styrene	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	0.23	0.21 U	0.21 U	0.22	0.21 U
Tetrachloroethene	7.9	0.75	0.34 U	2	1.1	0.34 U	0.34 U	0.34 U	1.4	0.47	0.47	0.54	0.66	0.64
Tetrahydrofuran	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	0.15 U	0.15 U	0.2
Toluene	1	1.1	1.3	0.76	1.2	0.19 U	0.79	0.63	0.47	0.73	0.7	0.58	0.59	0.51
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	1.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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	0.22 U	0.22 U
Trichloroethene	2	0.27 U	0.27 U	1.1	0.57	0.27 U	0.27 U	0.27 U	0.40	0.27 U	0.28	0.27	0.29	0.34
Trichlorofluoromethane	1.3	1.2	1.5	1.2	1.2	0.93	1.3	1.4	1.6	1.3	1.3	1.2	1.1	1.4
Trichlorotrifluoroethane	0.61	0.49	0.48	0.47	0.5	0.38 U	0.55	0.58	0.55	0.63	0.6	0.65	0.62	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	0.71 U	0.71 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Vinyl chloride	0.2	0.13 U	0.13 U	0.16	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

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)	LRAIR06 5/15/2009	LRAIR07 5/15/2009	LRAIR08 5/15/2009	LRAIR09 5/15/2009	LRAIR10 5/15/2009
1,1,1-Trichloroethane	0.44	0.69	0.5	0.49	0.53
1,1,2,2-Tetrachloroethane	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
1,1-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
1,2,4-Trimethylbenzene	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,2-Dibromoethane (EDB)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,2-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,2-Dichloroethane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	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
1,3,5-Trimethylbenzene	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
1,3-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
1,4-Dichlorobenzene	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
2-Butanone	1.6	3.1	2.5	2.6	1.4
2-Hexanone	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
4-Methyl-2-pentanone	0.27	0.32	0.3	0.61	0.23
Acetone	7.7	13	11	9.8	6.9
Benzene	0.51	0.53	0.6	0.51	0.57
Benzyl chloride	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
Bromoform	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
Carbon disulfide	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon tetrachloride	0.63	0.68	0.7	0.64	0.66
Chlorobenzene	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
Chloroform	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Chloromethane	1	0.92	1.1	0.91	1.2
cis-1,2-Dichloroethene	0.2 U	0.21	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	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
Dibromochloromethane	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Dichlorodifluoromethane	2.4	2.4	2.8	2.3	2.7

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)	LRAIR06 5/15/2009	LRAIR07 5/15/2009	LRAIR08 5/15/2009	LRAIR09 5/15/2009	LRAIR10 5/15/2009
Ethanol	5.6	5.9	14	44	14
Ethyl acetate	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	0.27	0.22 U
Hexachlorobutadiene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Hexane	0.18 U	0.19	0.21	0.2	0.18 U
Isopropyl alcohol	3.4	4.4	3.6	2.8	3.2
m,p-Xylene	0.5	0.48	0.53	1	0.5
Methylene chloride	1.6	1.5	1.6	1.6	1.4
Methyl-t-butyl ether	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
n-Heptane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	0.26	0.25	0.27	0.34	0.26
Propylene (Propene)	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Styrene	0.21 U	0.37	0.21 U	0.21 U	0.21 U
Tetrachloroethene	0.6	0.73	0.53	0.46	0.46
Tetrahydrofuran	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	0.53	0.57	0.53	0.54	0.47
trans-1,2-Dichloroethene	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	0.27	0.28	0.27 U	0.27 U	0.27 U
Trichlorofluoromethane	1.3	1.1	1.4	1	1.4
Trichlorotrifluoroethane	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
Vinyl chloride	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

NA - not available

U - Not detected, value is the detection limit

ug/m³ - micrograms per cubic meter

Prepared by/Date: KJC 03/23/10

Checked by/Date: ARM 03/25/10

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

Date	Pressure Differential (inches of water)			
	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	-0.520	-0.0160	-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

* vacuum reduced at extraction wells

Prepared by/Date: ARM 03/23/10

Checked by/Date: KJC 0331/10

Table 5.
 Summary of Indoor Air Data - Chloroform, Ethanol, and Isopropyl Alcohol
 Large Retail Space
 January 2009 - February 2010
 Former Gorham Manufacturing Site
 Providence, RI

Compound	Concentration	Units	Qualifier	Sample_Date	Location_ID
Chloroform	0.24	ug/m3	U	1/16/2009	IA-1
Chloroform	0.24	ug/m3	U	1/16/2009	IA-2
Chloroform	0.24	ug/m3	U	1/16/2009	IA-3
Chloroform	0.24	ug/m3	U	1/16/2009	IA-4
Chloroform	0.24	ug/m3	U	2/3/2009	IA-1
Chloroform	0.24	ug/m3	U	2/3/2009	IA-2
Chloroform	0.24	ug/m3	U	2/3/2009	IA-3
Chloroform	0.24	ug/m3	U	2/3/2009	IA-4
Chloroform	0.24	ug/m3	U	2/11/2009	IA-1
Chloroform	0.24	ug/m3	U	2/11/2009	IA-2
Chloroform	0.24	ug/m3	U	2/11/2009	IA-3
Chloroform	0.24	ug/m3	U	2/11/2009	IA-4
Chloroform	0.24	ug/m3	U	2/18/2009	IA-1
Chloroform	0.24	ug/m3	U	2/18/2009	IA-2
Chloroform	0.24	ug/m3	U	2/18/2009	IA-3
Chloroform	0.24	ug/m3	U	2/18/2009	IA-4
Chloroform	0.24	ug/m3	U	2/26/2009	IA-1
Chloroform	0.25	ug/m3		2/26/2009	IA-2
Chloroform	0.24	ug/m3	U	2/26/2009	IA-3
Chloroform	0.26	ug/m3		2/26/2009	IA-4
Chloroform	0.24	ug/m3	U	3/6/2009	IA-1
Chloroform	0.24	ug/m3	U	3/31/2009	IA-1
Chloroform	0.17	ug/m3	U	4/14/2009	IA-1
Chloroform	0.17	ug/m3	U	4/14/2009	IA-2
Chloroform	0.17	ug/m3	U	4/14/2009	IA-3
Chloroform	0.17	ug/m3	U	4/14/2009	IA-4
Chloroform	0.24	ug/m3	U	4/24/2009	IA-1
Chloroform	0.24	ug/m3	U	4/24/2009	IA-2
Chloroform	0.24	ug/m3	U	4/24/2009	IA-3
Chloroform	0.24	ug/m3	U	4/24/2009	IA-4
Chloroform	0.24	ug/m3	U	9/17/2009	IA-1
Chloroform	0.24	ug/m3	U	9/17/2009	IA-2
Chloroform	0.24	ug/m3	U	9/17/2009	IA-3
Chloroform	0.24	ug/m3	U	9/17/2009	IA-4
Chloroform	0.24	ug/m3	U	9/24/2009	IA-1
Chloroform	0.24	ug/m3	U	9/24/2009	IA-2
Chloroform	0.24	ug/m3	U	9/24/2009	IA-3
Chloroform	0.24	ug/m3	U	9/24/2009	IA-4
Chloroform	0.24	ug/m3	U	10/1/2009	IA-1
Chloroform	0.24	ug/m3	U	10/1/2009	IA-2
Chloroform	0.24	ug/m3	U	10/1/2009	IA-3
Chloroform	0.24	ug/m3	U	10/1/2009	IA-4
Chloroform	0.24	ug/m3	U	10/8/2009	IA-1
Chloroform	0.24	ug/m3	U	10/8/2009	IA-2
Chloroform	0.24	ug/m3	U	10/8/2009	IA-3

Table 5.
 Summary of Indoor Air Data - Chloroform, Ethanol, and Isopropyl Alcohol
 Large Retail Space
 January 2009 - February 2010
 Former Gorham Manufacturing Site
 Providence, RI

Compound	Concentration	Units	Qualifier	Sample_Date	Location_ID
Chloroform	0.24	ug/m3	U	10/8/2009	IA-4
Chloroform	0.17	ug/m3	U	12/2/2009	IA-1
Chloroform	0.26	ug/m3		1/8/2010	IA-1
Chloroform	0.24	ug/m3	U	1/28/2010	IA-2
Chloroform	0.24	ug/m3	U	1/28/2010	IA-3
Chloroform	0.24	ug/m3	U	1/28/2010	IA-4
Chloroform	0.24	ug/m3	U	1/28/2010	IA-1
Chloroform	0.47	ug/m3		2/5/2010	IA-1
Chloroform	0.47	ug/m3		2/5/2010	IA-2
Chloroform	0.53	ug/m3		2/5/2010	IA-3
Chloroform	0.46	ug/m3		2/5/2010	IA-4
Ethanol	5.7	ug/m3		1/16/2009	IA-1
Ethanol	5.5	ug/m3		1/16/2009	IA-2
Ethanol	5.5	ug/m3		1/16/2009	IA-3
Ethanol	5.3	ug/m3		1/16/2009	IA-4
Ethanol	8.3	ug/m3		2/3/2009	IA-1
Ethanol	8.8	ug/m3		2/3/2009	IA-2
Ethanol	9.2	ug/m3		2/3/2009	IA-3
Ethanol	8.9	ug/m3		2/3/2009	IA-4
Ethanol	14	ug/m3		2/11/2009	IA-1
Ethanol	12	ug/m3		2/11/2009	IA-2
Ethanol	13	ug/m3		2/11/2009	IA-3
Ethanol	12	ug/m3		2/11/2009	IA-4
Ethanol	20	ug/m3		2/18/2009	IA-1
Ethanol	17	ug/m3		2/18/2009	IA-2
Ethanol	18	ug/m3		2/18/2009	IA-3
Ethanol	18	ug/m3		2/18/2009	IA-4
Ethanol	9.8	ug/m3		2/26/2009	IA-1
Ethanol	7.9	ug/m3		2/26/2009	IA-2
Ethanol	7.9	ug/m3		2/26/2009	IA-3
Ethanol	8	ug/m3		2/26/2009	IA-4
Ethanol	7.5	ug/m3		3/6/2009	IA-1
Ethanol	18	ug/m3		3/31/2009	IA-1
Ethanol	5	ug/m3		4/14/2009	IA-1
Ethanol	4.9	ug/m3		4/14/2009	IA-2
Ethanol	4.2	ug/m3		4/14/2009	IA-3
Ethanol	5.2	ug/m3		4/14/2009	IA-4
Ethanol	39	ug/m3		4/24/2009	IA-1
Ethanol	7.5	ug/m3		4/24/2009	IA-2
Ethanol	9	ug/m3		4/24/2009	IA-3
Ethanol	5.5	ug/m3		4/24/2009	IA-4
Ethanol	6.2	ug/m3		9/17/2009	IA-1
Ethanol	4.8	ug/m3		9/17/2009	IA-2
Ethanol	6.2	ug/m3		9/17/2009	IA-3
Ethanol	6	ug/m3		9/17/2009	IA-4

Table 5.
 Summary of Indoor Air Data - Chloroform, Ethanol, and Isopropyl Alcohol
 Large Retail Space
 January 2009 - February 2010
 Former Gorham Manufacturing Site
 Providence, RI

Compound	Concentration	Units	Qualifier	Sample_Date	Location_ID
Ethanol	7	ug/m3		9/24/2009	IA-1
Ethanol	6.7	ug/m3		9/24/2009	IA-2
Ethanol	7.5	ug/m3		9/24/2009	IA-3
Ethanol	6.5	ug/m3		9/24/2009	IA-4
Ethanol	6.5	ug/m3		10/1/2009	IA-1
Ethanol	7.8	ug/m3		10/1/2009	IA-2
Ethanol	4.5	ug/m3		10/1/2009	IA-3
Ethanol	4.9	ug/m3		10/1/2009	IA-4
Ethanol	8.8	ug/m3		10/8/2009	IA-1
Ethanol	6.2	ug/m3		10/8/2009	IA-2
Ethanol	5	ug/m3		10/8/2009	IA-3
Ethanol	5.6	ug/m3		10/8/2009	IA-4
Ethanol	10	ug/m3		12/2/2009	IA-1
Ethanol	8.4	ug/m3		1/8/2010	IA-1
Ethanol	14	ug/m3		1/28/2010	IA-2
Ethanol	13	ug/m3		1/28/2010	IA-3
Ethanol	7.7	ug/m3		1/28/2010	IA-4
Ethanol	7	ug/m3		1/28/2010	IA-1
Ethanol	29	ug/m3		2/5/2010	IA-1
Ethanol	35	ug/m3		2/5/2010	IA-2
Ethanol	40	ug/m3		2/5/2010	IA-3
Ethanol	34	ug/m3		2/5/2010	IA-4
Isopropyl alcohol	3.4	ug/m3		1/16/2009	IA-1
Isopropyl alcohol	3.7	ug/m3		1/16/2009	IA-2
Isopropyl alcohol	3.5	ug/m3		1/16/2009	IA-3
Isopropyl alcohol	3.5	ug/m3		1/16/2009	IA-4
Isopropyl alcohol	3.1	ug/m3		2/3/2009	IA-1
Isopropyl alcohol	3.1	ug/m3		2/3/2009	IA-2
Isopropyl alcohol	4.1	ug/m3		2/3/2009	IA-3
Isopropyl alcohol	3.3	ug/m3		2/3/2009	IA-4
Isopropyl alcohol	5.3	ug/m3		2/11/2009	IA-1
Isopropyl alcohol	4.5	ug/m3		2/11/2009	IA-2
Isopropyl alcohol	5.5	ug/m3		2/11/2009	IA-3
Isopropyl alcohol	4.7	ug/m3		2/11/2009	IA-4
Isopropyl alcohol	5.8	ug/m3		2/18/2009	IA-1
Isopropyl alcohol	4.5	ug/m3		2/18/2009	IA-2
Isopropyl alcohol	4.9	ug/m3		2/18/2009	IA-3
Isopropyl alcohol	4.8	ug/m3		2/18/2009	IA-4
Isopropyl alcohol	3.8	ug/m3		2/26/2009	IA-1
Isopropyl alcohol	4.7	ug/m3		2/26/2009	IA-2
Isopropyl alcohol	3.1	ug/m3		2/26/2009	IA-3
Isopropyl alcohol	3.9	ug/m3		2/26/2009	IA-4
Isopropyl alcohol	2	ug/m3		3/6/2009	IA-1
Isopropyl alcohol	9.1	ug/m3		3/31/2009	IA-1
Isopropyl alcohol	0.18	ug/m3	U	4/14/2009	IA-1

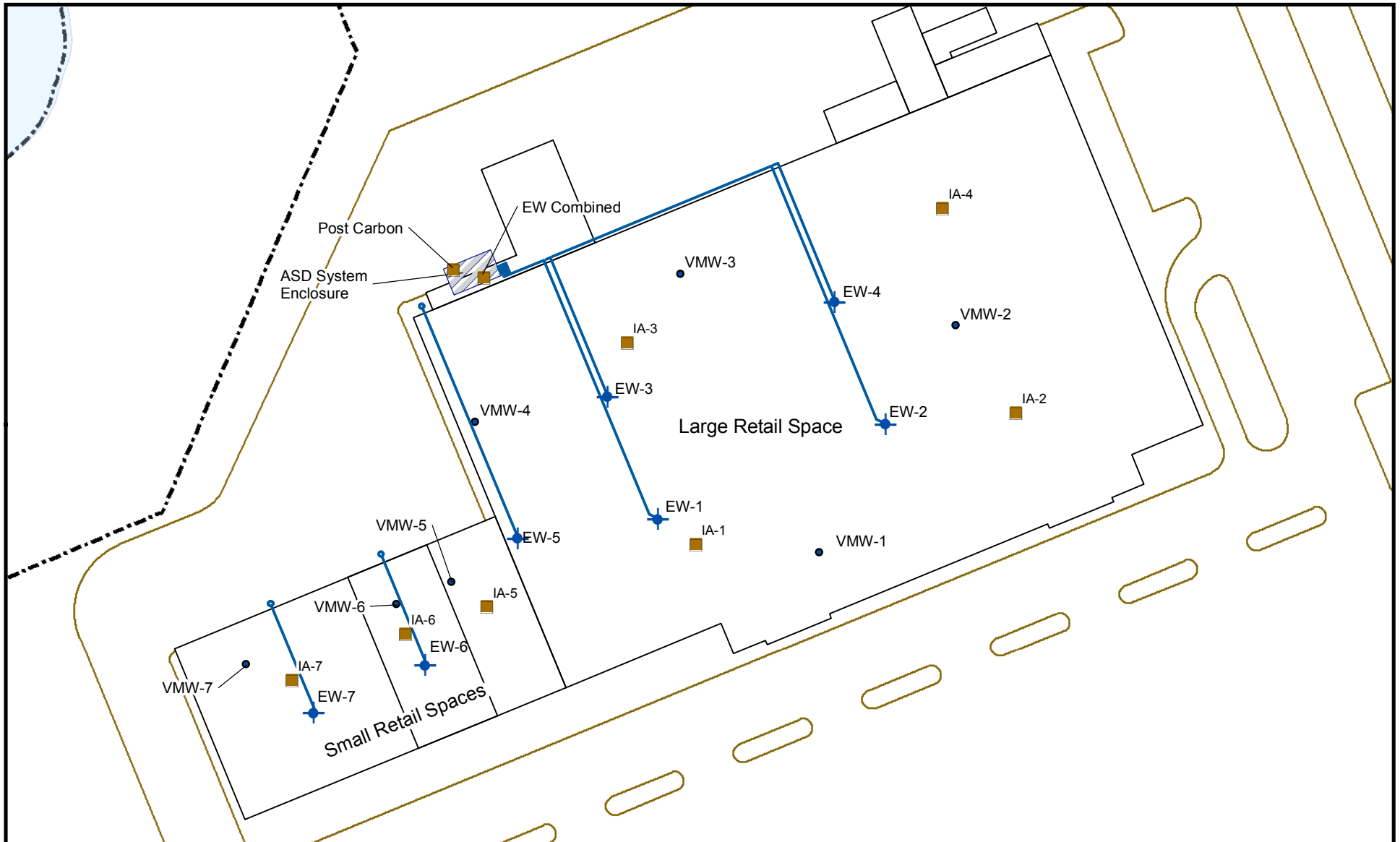
Table 5.
 Summary of Indoor Air Data - Chloroform, Ethanol, and Isopropyl Alcohol
 Large Retail Space
 January 2009 - February 2010
 Former Gorham Manufacturing Site
 Providence, RI

Compound	Concentration	Units	Qualifier	Sample_Date	Location_ID
Isopropyl alcohol	5.6	ug/m3		4/14/2009	IA-2
Isopropyl alcohol	0.18	ug/m3	U	4/14/2009	IA-3
Isopropyl alcohol	0.18	ug/m3	U	4/14/2009	IA-4
Isopropyl alcohol	240	ug/m3		4/24/2009	IA-1
Isopropyl alcohol	28	ug/m3		4/24/2009	IA-2
Isopropyl alcohol	33	ug/m3		4/24/2009	IA-3
Isopropyl alcohol	13	ug/m3		4/24/2009	IA-4
Isopropyl alcohol	5.2	ug/m3		9/17/2009	IA-1
Isopropyl alcohol	340	ug/m3		9/17/2009	IA-2
Isopropyl alcohol	180	ug/m3		9/17/2009	IA-3
Isopropyl alcohol	5.6	ug/m3		9/17/2009	IA-4
Isopropyl alcohol	5.2	ug/m3		9/24/2009	IA-1
Isopropyl alcohol	5.7	ug/m3		9/24/2009	IA-2
Isopropyl alcohol	5.9	ug/m3		9/24/2009	IA-3
Isopropyl alcohol	5.2	ug/m3		9/24/2009	IA-4
Isopropyl alcohol	0.25	ug/m3	U	10/1/2009	IA-1
Isopropyl alcohol	3.3	ug/m3		10/1/2009	IA-2
Isopropyl alcohol	0.25	ug/m3	U	10/1/2009	IA-3
Isopropyl alcohol	0.25	ug/m3	U	10/1/2009	IA-4
Isopropyl alcohol	2.7	ug/m3		10/8/2009	IA-1
Isopropyl alcohol	0.25	ug/m3	U	10/8/2009	IA-2
Isopropyl alcohol	0.25	ug/m3	U	10/8/2009	IA-3
Isopropyl alcohol	0.25	ug/m3	U	10/8/2009	IA-4
Isopropyl alcohol	1.8	ug/m3		12/2/2009	IA-1
Isopropyl alcohol	2.4	ug/m3		1/8/2010	IA-1
Isopropyl alcohol	0.25	ug/m3	U	1/28/2010	IA-2
Isopropyl alcohol	0.25	ug/m3	U	1/28/2010	IA-3
Isopropyl alcohol	0.96	ug/m3		1/28/2010	IA-4
Isopropyl alcohol	0.25	ug/m3	U	1/28/2010	IA-1
Isopropyl alcohol	9.4	ug/m3		2/5/2010	IA-1
Isopropyl alcohol	3.6	ug/m3		2/5/2010	IA-2
Isopropyl alcohol	9.9	ug/m3		2/5/2010	IA-3
Isopropyl alcohol	0.25	ug/m3	U	2/5/2010	IA-4

U = not detected

Prepared by: MJM 02/15/10
 Checked by: ARM 04/08/10

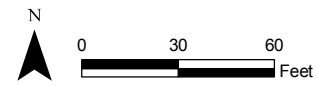
FIGURES



All locations are approximate

Legend

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



Prepared by BJR | Checked by DEH

Figure 1
Vapor Mitigation
Sample Locations

Former Gorham Manufacturing Facility
333 Adelaide Avenue
Providence, Rhode Island



APPENDIX A
Laboratory Reports

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

REPORT DATE 12/10/2009

MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880
 ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
 PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25332
 JOB NUMBER: 3650080114.13

PROJECT LOCATION: PROVIDENCE, RI (GORHAM SITE)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
IA-1-120209	09B14960	AIR	Not Specified	to-15 ppbv	
IA-1-120209	09B14960	AIR	Not Specified	to-15 ug/m3	
SG-16-120209	09B14961	AIR	Not Specified	to-15 ppbv	
SG-16-120209	09B14961	AIR	Not Specified	to-15 ug/m3	

**CHECKED FOR COMPLETENESS
 OF PARAMETERS ORDERED BY:**




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

REPORT DATE 12/10/2009

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25332
JOB NUMBER: 3650080114.13

Comments :

LIMS BATCH NO. : LIMIT-25332

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133037 contained Acetone at 0.73 ppbv = 1.7 ug/m3, Methylene Chloride at 0.25 ppbv = 0.88 ug/m3, Ethanol at 0.29 ppbv = 0.56 ug/m3 and 2-Butanone(MEK) at 0.12 ppbv = 0.36 ug/m3.

In method TO-15, method blank-133038 contained Acetone at 0.31 ppbv = 0.75 ug/m3, Methylene Chloride at 0.32 ppbv = 1.1 ug/m3 and 2-Butanone(MEK) at 0.06 ppbv = 0.19 ug/m3.

In method TO-15, any reported result for Chloroethane in sample 09B14961 is estimated and likely to be biased on the high side based on continuing calibration bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include 09B14960, 09B14961, blank-130000, and blank-130000 with various dilutions and compound lists.

Method blank-133037 is associated with sample 09B14961 40x.
Method blank-133038 is associated with samples 09B14960 0.7x and 09B14961 4000x.

Lfblank-95362 is associated with sample 09B14961 40x.
Lfblank-95363 is associated with samples 09B14960 0.7x and 09B14961 4000x.

In method TO-15, data is not affected by laboratory fortified blank recovery outlier for 1,2,4-Trichlorobenzene since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing various accreditations: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. # 652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).

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.



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

REPORT DATE 12/10/2009

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25332

JOB NUMBER: 3650080114.13

M. Cullen *12/10/09*

SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

12/10/2009
 Page 1 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
 Job Number: 3650080114.13

Field Sample # : IA-1-120209

Sample ID : 09B14960 ‡Sampled : 12/2/2009
 Not Specified
 Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.3	0.04		12/08/09	TPH
Benzene	PPBv	0.33	0.04		12/08/09	TPH
Benzyl Chloride	PPBv	ND	0.04		12/08/09	TPH
Bromodichloromethane	PPBv	ND	0.04		12/08/09	TPH
Bromoform	PPBv	ND	0.04		12/08/09	TPH
Bromomethane	PPBv	ND	0.04		12/08/09	TPH
1,3-Butadiene	PPBv	0.08	0.04		12/08/09	TPH
2-Butanone (MEK)	PPBv	0.90	0.04		12/08/09	TPH
Carbon Disulfide	PPBv	ND	0.04		12/08/09	TPH
Carbon Tetrachloride	PPBv	0.08	0.04		12/08/09	TPH
Chlorobenzene	PPBv	ND	0.04		12/08/09	TPH
Chlorodibromomethane	PPBv	ND	0.04		12/08/09	TPH
Chloroethane	PPBv	ND	0.04		12/08/09	TPH
Chloroform	PPBv	ND	0.04		12/08/09	TPH
Chloromethane	PPBv	0.63	0.04		12/08/09	TPH
Cyclohexane	PPBv	0.08	0.04		12/08/09	TPH
1,2-Dibromoethane	PPBv	ND	0.04		12/08/09	TPH
1,2-Dichlorobenzene	PPBv	ND	0.04		12/08/09	TPH
1,3-Dichlorobenzene	PPBv	ND	0.04		12/08/09	TPH
1,4-Dichlorobenzene	PPBv	ND	0.04		12/08/09	TPH
Dichlorodifluoromethane	PPBv	0.33	0.04		12/08/09	TPH
1,1-Dichloroethane	PPBv	ND	0.04		12/08/09	TPH
1,2-Dichloroethane	PPBv	ND	0.04		12/08/09	TPH
1,1-Dichloroethylene	PPBv	ND	0.04		12/08/09	TPH
cis-1,2-Dichloroethylene	PPBv	0.14	0.04		12/08/09	TPH
t-1,2-Dichloroethylene	PPBv	ND	0.04		12/08/09	TPH
1,2-Dichloropropane	PPBv	ND	0.04		12/08/09	TPH
cis-1,3-Dichloropropene	PPBv	ND	0.04		12/08/09	TPH
trans-1,3-Dichloropropene	PPBv	ND	0.04		12/08/09	TPH
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.04		12/08/09	TPH
Ethanol	PPBv	5.5	0.04		12/08/09	TPH
Ethyl Acetate	PPBv	ND	0.04		12/08/09	TPH
Ethylbenzene	PPBv	0.11	0.04		12/08/09	TPH
4-Ethyl Toluene	PPBv	0.04	0.04		12/08/09	TPH
n-Heptane	PPBv	0.10	0.04		12/08/09	TPH

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

12/10/2009
 Page 2 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
 Job Number: 3650080114.13

Field Sample # : IA-1-120209

Sample ID : 09B14960 ‡Sampled : 12/2/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.07		12/08/09	TPH
Hexane	PPBv	0.22	0.04		12/08/09	TPH
2-Hexanone	PPBv	0.17	0.04		12/08/09	TPH
Isopropanol	PPBv	0.72	0.04		12/08/09	TPH
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.04		12/08/09	TPH
Methylene Chloride	PPBv	0.82	0.04		12/08/09	TPH
4-Methyl-2-Pentanone (MIBK)	PPBv	0.08	0.04		12/08/09	TPH
Propene	PPBv	ND	0.14		12/08/09	TPH
Styrene	PPBv	0.04	0.04		12/08/09	TPH
1,1,2,2-Tetrachloroethane	PPBv	ND	0.04		12/08/09	TPH
Tetrachloroethylene	PPBv	0.47	0.04		12/08/09	TPH
Tetrahydrofuran	PPBv	ND	0.04		12/08/09	TPH
Toluene	PPBv	0.73	0.04		12/08/09	TPH
1,2,4-Trichlorobenzene	PPBv	ND	0.07		12/08/09	TPH
1,1,1-Trichloroethane	PPBv	0.04	0.04		12/08/09	TPH
1,1,2-Trichloroethane	PPBv	ND	0.04		12/08/09	TPH
Trichloroethylene	PPBv	0.13	0.04		12/08/09	TPH
Trichlorofluoromethane (Freon 11)	PPBv	0.24	0.04		12/08/09	TPH
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.04		12/08/09	TPH
1,2,4-Trimethylbenzene	PPBv	0.11	0.04		12/08/09	TPH
1,3,5-Trimethylbenzene	PPBv	0.04	0.04		12/08/09	TPH
Vinyl Acetate	PPBv	ND	0.07		12/08/09	TPH
Vinyl Chloride	PPBv	ND	0.04		12/08/09	TPH
m/p-Xylene	PPBv	0.31	0.07		12/08/09	TPH
o-Xylene	PPBv	0.12	0.04		12/08/09	TPH
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	13	0.09		12/08/09	TPH
Benzene	ug/m3	1.1	0.12		12/08/09	TPH
Benzyl Chloride	ug/m3	ND	0.19		12/08/09	TPH
Bromodichloromethane	ug/m3	ND	0.24		12/08/09	TPH
Bromoform	ug/m3	ND	0.36		12/08/09	TPH
Bromomethane	ug/m3	ND	0.14		12/08/09	TPH
1,3-Butadiene	ug/m3	0.17	0.08		12/08/09	TPH
2-Butanone (MEK)	ug/m3	2.7	0.11		12/08/09	TPH
Carbon Disulfide	ug/m3	ND	0.12		12/08/09	TPH

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 WAKEFIELD, MA 01880

12/10/2009
 Page 3 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
 Job Number: 3650080114.13

Field Sample # : IA-1-120209

Sample ID : 09B14960 ‡Sampled : 12/2/2009
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.48	0.22		12/08/09	TPH
Chlorobenzene	ug/m3	ND	0.17		12/08/09	TPH
Chlorodibromomethane	ug/m3	ND	0.31		12/08/09	TPH
Chloroethane	ug/m3	ND	0.10		12/08/09	TPH
Chloroform	ug/m3	ND	0.17		12/08/09	TPH
Chloromethane	ug/m3	1.3	0.07		12/08/09	TPH
Cyclohexane	ug/m3	0.28	0.12		12/08/09	TPH
1,2-Dibromoethane	ug/m3	ND	0.27		12/08/09	TPH
1,2-Dichlorobenzene	ug/m3	ND	0.21		12/08/09	TPH
1,3-Dichlorobenzene	ug/m3	ND	0.21		12/08/09	TPH
1,4-Dichlorobenzene	ug/m3	ND	0.21		12/08/09	TPH
Dichlorodifluoromethane	ug/m3	1.6	0.18		12/08/09	TPH
1,1-Dichloroethane	ug/m3	ND	0.14		12/08/09	TPH
1,2-Dichloroethane	ug/m3	ND	0.14		12/08/09	TPH
1,1-Dichloroethylene	ug/m3	ND	0.14		12/08/09	TPH
cis-1,2-Dichloroethylene	ug/m3	0.57	0.14		12/08/09	TPH
t-1,2-Dichloroethylene	ug/m3	ND	0.14		12/08/09	TPH
1,2-Dichloropropane	ug/m3	ND	0.17		12/08/09	TPH
cis-1,3-Dichloropropene	ug/m3	ND	0.16		12/08/09	TPH
trans-1,3-Dichloropropene	ug/m3	ND	0.16		12/08/09	TPH
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.25		12/08/09	TPH
Ethanol	ug/m3	10	0.07		12/08/09	TPH
Ethyl Acetate	ug/m3	ND	0.13		12/08/09	TPH
Ethylbenzene	ug/m3	0.46	0.16		12/08/09	TPH
4-Ethyl Toluene	ug/m3	0.18	0.18		12/08/09	TPH
n-Heptane	ug/m3	0.42	0.14		12/08/09	TPH
Hexachlorobutadiene	ug/m3	ND	0.75		12/08/09	TPH
Hexane	ug/m3	0.78	0.13		12/08/09	TPH
2-Hexanone	ug/m3	0.71	0.14		12/08/09	TPH
Isopropanol	ug/m3	1.8	0.09		12/08/09	TPH
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.13		12/08/09	TPH
Methylene Chloride	ug/m3	2.9	0.12		12/08/09	TPH
4-Methyl-2-Pentanone (MIBK)	ug/m3	0.34	0.14		12/08/09	TPH
Propene	ug/m3	ND	0.25		12/08/09	TPH
Styrene	ug/m3	0.19	0.15		12/08/09	TPH

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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WAKEFIELD, MA 01880

12/10/2009
Page 4 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
Job Number: 3650080114.13

Field Sample # : IA-1-120209

Sample ID : 09B14960 ‡Sampled : 12/2/2009
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.24		12/08/09	TPH
Tetrachloroethylene	ug/m3	3.2	0.24		12/08/09	TPH
Tetrahydrofuran	ug/m3	ND	0.11		12/08/09	TPH
Toluene	ug/m3	2.8	0.14		12/08/09	TPH
1,2,4-Trichlorobenzene	ug/m3	ND	0.52		12/08/09	TPH
1,1,1-Trichloroethane	ug/m3	0.24	0.19		12/08/09	TPH
1,1,2-Trichloroethane	ug/m3	ND	0.19		12/08/09	TPH
Trichloroethylene	ug/m3	0.69	0.19		12/08/09	TPH
Trichlorofluoromethane	ug/m3	1.3	0.20		12/08/09	TPH
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.52	0.27		12/08/09	TPH
1,2,4-Trimethylbenzene	ug/m3	0.52	0.18		12/08/09	TPH
1,3,5-Trimethylbenzene	ug/m3	0.18	0.18		12/08/09	TPH
Vinyl Acetate	ug/m3	ND	0.25		12/08/09	TPH
Vinyl Chloride	ug/m3	ND	0.10		12/08/09	TPH
m/p-Xylene	ug/m3	1.4	0.31		12/08/09	TPH
o-Xylene	ug/m3	0.52	0.16		12/08/09	TPH

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

12/10/2009
 Page 5 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
 Job Number: 3650080114.13

Field Sample # : SG-16-120209

Sample ID : 09B14961 ‡Sampled : 12/2/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	ND	20		12/08/09	TPH
Benzene	PPBv	34	2.0		12/08/09	TPH
Benzyl Chloride	PPBv	ND	2.0		12/08/09	TPH
Bromodichloromethane	PPBv	ND	2.0		12/08/09	TPH
Bromoform	PPBv	ND	2.0		12/08/09	TPH
Bromomethane	PPBv	ND	2.0		12/08/09	TPH
1,3-Butadiene	PPBv	ND	2.0		12/08/09	TPH
2-Butanone (MEK)	PPBv	ND	2.0		12/08/09	TPH
Carbon Disulfide	PPBv	ND	2.0		12/08/09	TPH
Carbon Tetrachloride	PPBv	ND	2.0		12/08/09	TPH
Chlorobenzene	PPBv	ND	2.0		12/08/09	TPH
Chlorodibromomethane	PPBv	ND	2.0		12/08/09	TPH
Chloroethane	PPBv	1100	2.0		12/08/09	TPH
Chloroform	PPBv	16	2.0		12/08/09	TPH
Chloromethane	PPBv	ND	2.0		12/08/09	TPH
Cyclohexane	PPBv	3.6	2.0		12/08/09	TPH
1,2-Dibromoethane	PPBv	ND	2.0		12/08/09	TPH
1,2-Dichlorobenzene	PPBv	ND	2.0		12/08/09	TPH
1,3-Dichlorobenzene	PPBv	ND	2.0		12/08/09	TPH
1,4-Dichlorobenzene	PPBv	ND	2.0		12/08/09	TPH
Dichlorodifluoromethane	PPBv	ND	2.0		12/08/09	TPH
1,1-Dichloroethane	PPBv	36000	2.0		12/08/09	TPH
1,2-Dichloroethane	PPBv	ND	2.0		12/08/09	TPH
1,1-Dichloroethylene	PPBv	9200	2.0		12/08/09	TPH
cis-1,2-Dichloroethylene	PPBv	12000	2.0		12/08/09	TPH
t-1,2-Dichloroethylene	PPBv	160	2.0		12/08/09	TPH
1,2-Dichloropropane	PPBv	ND	2.0		12/08/09	TPH
cis-1,3-Dichloropropene	PPBv	ND	2.0		12/08/09	TPH
trans-1,3-Dichloropropene	PPBv	ND	2.0		12/08/09	TPH
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	2.0		12/08/09	TPH
Ethanol	PPBv	ND	20		12/08/09	TPH
Ethyl Acetate	PPBv	ND	2.0		12/08/09	TPH
Ethylbenzene	PPBv	ND	2.0		12/08/09	TPH
4-Ethyl Toluene	PPBv	ND	2.0		12/08/09	TPH
n-Heptane	PPBv	ND	2.0		12/08/09	TPH

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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WAKEFIELD, MA 01880

12/10/2009
Page 6 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
Job Number: 3650080114.13

Field Sample # : SG-16-120209

Sample ID : 09B14961 ‡Sampled : 12/2/2009
Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	4.0		12/08/09	TPH
Hexane	PPBv	10	2.0		12/08/09	TPH
2-Hexanone	PPBv	ND	2.0		12/08/09	TPH
Isopropanol	PPBv	ND	4.0		12/08/09	TPH
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	2.0		12/08/09	TPH
Methylene Chloride	PPBv	29	2.0		12/08/09	TPH
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	2.0		12/08/09	TPH
Propene	PPBv	75	2.0		12/08/09	TPH
Styrene	PPBv	ND	2.0		12/08/09	TPH
1,1,2,2-Tetrachloroethane	PPBv	ND	2.0		12/08/09	TPH
Tetrachloroethylene	PPBv	57	2.0		12/08/09	TPH
Tetrahydrofuran	PPBv	ND	2.0		12/08/09	TPH
Toluene	PPBv	ND	2.0		12/08/09	TPH
1,2,4-Trichlorobenzene	PPBv	ND	4.0		12/08/09	TPH
1,1,1-Trichloroethane	PPBv	99000	2.0		12/08/09	TPH
1,1,2-Trichloroethane	PPBv	ND	2.0		12/08/09	TPH
Trichloroethylene	PPBv	39000	2.0		12/08/09	TPH
Trichlorofluoromethane (Freon 11)	PPBv	140	2.0		12/08/09	TPH
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	2.0		12/08/09	TPH
1,2,4-Trimethylbenzene	PPBv	ND	2.0		12/08/09	TPH
1,3,5-Trimethylbenzene	PPBv	ND	2.0		12/08/09	TPH
Vinyl Acetate	PPBv	ND	4.0		12/08/09	TPH
Vinyl Chloride	PPBv	75	2.0		12/08/09	TPH
m/p-Xylene	PPBv	ND	4.0		12/08/09	TPH
o-Xylene	PPBv	ND	2.0		12/08/09	TPH
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	ND	48		12/08/09	TPH
Benzene	ug/m3	110	6.4		12/08/09	TPH
Benzyl Chloride	ug/m3	ND	11		12/08/09	TPH
Bromodichloromethane	ug/m3	ND	14		12/08/09	TPH
Bromoform	ug/m3	ND	21		12/08/09	TPH
Bromomethane	ug/m3	ND	7.6		12/08/09	TPH
1,3-Butadiene	ug/m3	ND	4.4		12/08/09	TPH
2-Butanone (MEK)	ug/m3	ND	6.0		12/08/09	TPH
Carbon Disulfide	ug/m3	ND	6.4		12/08/09	TPH

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

12/10/2009
 Page 7 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMT-25332
 Job Number: 3650080114.13

Field Sample # : SG-16-120209

Sample ID : 09B14961 ‡Sampled : 12/2/2009
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	13		12/08/09	TPH
Chlorobenzene	ug/m3	ND	9.2		12/08/09	TPH
Chlorodibromomethane	ug/m3	ND	18		12/08/09	TPH
Chloroethane	ug/m3	3000	5.2		12/08/09	TPH
Chloroform	ug/m3	80	9.6		12/08/09	TPH
Chloromethane	ug/m3	ND	4.0		12/08/09	TPH
Cyclohexane	ug/m3	12	6.8		12/08/09	TPH
1,2-Dibromoethane	ug/m3	ND	16		12/08/09	TPH
1,2-Dichlorobenzene	ug/m3	ND	12		12/08/09	TPH
1,3-Dichlorobenzene	ug/m3	ND	12		12/08/09	TPH
1,4-Dichlorobenzene	ug/m3	ND	12		12/08/09	TPH
Dichlorodifluoromethane	ug/m3	ND	10		12/08/09	TPH
1,1-Dichloroethane	ug/m3	150000	8.0		12/08/09	TPH
1,2-Dichloroethane	ug/m3	ND	8.0		12/08/09	TPH
1,1-Dichloroethylene	ug/m3	37000	8.0		12/08/09	TPH
cis-1,2-Dichloroethylene	ug/m3	46000	8.0		12/08/09	TPH
t-1,2-Dichloroethylene	ug/m3	640	8.0		12/08/09	TPH
1,2-Dichloropropane	ug/m3	ND	9.2		12/08/09	TPH
cis-1,3-Dichloropropene	ug/m3	ND	8.8		12/08/09	TPH
trans-1,3-Dichloropropene	ug/m3	ND	8.8		12/08/09	TPH
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	14		12/08/09	TPH
Ethanol	ug/m3	ND	38		12/08/09	TPH
Ethyl Acetate	ug/m3	ND	7.2		12/08/09	TPH
Ethylbenzene	ug/m3	ND	8.8		12/08/09	TPH
4-Ethyl Toluene	ug/m3	ND	10		12/08/09	TPH
n-Heptane	ug/m3	ND	8.0		12/08/09	TPH
Hexachlorobutadiene	ug/m3	ND	43		12/08/09	TPH
Hexane	ug/m3	36	7.2		12/08/09	TPH
2-Hexanone	ug/m3	ND	8.0		12/08/09	TPH
Isopropanol	ug/m3	ND	9.9		12/08/09	TPH
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	7.2		12/08/09	TPH
Methylene Chloride	ug/m3	100	6.8		12/08/09	TPH
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	8.0		12/08/09	TPH
Propene	ug/m3	130	3.6		12/08/09	TPH
Styrene	ug/m3	ND	8.4		12/08/09	TPH

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

12/10/2009
 Page 8 of 9

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
 Job Number: 3650080114.13

Field Sample # : SG-16-120209

Sample ID : 09B14961 ‡Sampled : 12/2/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	14		12/08/09	TPH
Tetrachloroethylene	ug/m3	390	14		12/08/09	TPH
Tetrahydrofuran	ug/m3	ND	6.0		12/08/09	TPH
Toluene	ug/m3	ND	7.6		12/08/09	TPH
1,2,4-Trichlorobenzene	ug/m3	ND	30		12/08/09	TPH
1,1,1-Trichloroethane	ug/m3	540000	11		12/08/09	TPH
1,1,2-Trichloroethane	ug/m3	ND	11		12/08/09	TPH
Trichloroethylene	ug/m3	210000	11		12/08/09	TPH
Trichlorofluoromethane	ug/m3	790	12		12/08/09	TPH
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	16		12/08/09	TPH
1,2,4-Trimethylbenzene	ug/m3	ND	10		12/08/09	TPH
1,3,5-Trimethylbenzene	ug/m3	ND	10		12/08/09	TPH
Vinyl Acetate	ug/m3	ND	15		12/08/09	TPH
Vinyl Chloride	ug/m3	190	5.2		12/08/09	TPH
m/p-Xylene	ug/m3	ND	18		12/08/09	TPH
o-Xylene	ug/m3	ND	8.8		12/08/09	TPH

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‡ See attached chain-of-custody record for time sampled



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KELLY CHATTERTON
MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880

Purchase Order No.: 200914545

12/10/2009
Page 9 of 9

Project Location: PROVIDENCE, RI (GORHAM SITE)
Date Received: 12/3/2009

LIMS-BAT #: LIMIT-25332
Job Number: 3650080114.13

** END OF REPORT **

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 1 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B14960	4-Bromofluorobenzene	Surrogate Recovery	103.62	%	70-130
09B14961	4-Bromofluorobenzene	Surrogate Recovery	94.25	%	70-130
BLANK-133037	Acetone	Blank	1.75	ug/m3	
	Benzene	Blank	<0.07	ug/m3	
	Carbon Tetrachloride	Blank	<0.13	ug/m3	
	Chloroform	Blank	<0.10	ug/m3	
	1,2-Dichloroethane	Blank	<0.08	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.12	ug/m3	
	Ethyl Acetate	Blank	<0.08	ug/m3	
	Ethylbenzene	Blank	<0.09	ug/m3	
	Hexane	Blank	<0.08	ug/m3	
	Isopropanol	Blank	<0.10	ug/m3	
	2-Butanone (MEK)	Blank	0.36	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.08	ug/m3	
	Styrene	Blank	<0.09	ug/m3	
	Tetrachloroethylene	Blank	<0.14	ug/m3	
	Toluene	Blank	<0.08	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.11	ug/m3	
	Trichloroethylene	Blank	<0.11	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.16	ug/m3	
	Trichlorofluoromethane	Blank	<0.12	ug/m3	
	o-Xylene	Blank	<0.09	ug/m3	
	m/p-Xylene	Blank	<0.18	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,1-Dichloroethane	Blank	<0.08	ug/m3	
	1,1-Dichloroethylene	Blank	<0.08	ug/m3	
	Ethanol	Blank	0.56	ug/m3	
	4-Ethyl Toluene	Blank	<0.10	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.08	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	Vinyl Chloride	Blank	<0.06	ug/m3	
	Methylene Chloride	Blank	0.88	ug/m3	
	Chlorobenzene	Blank	<0.10	ug/m3	
	Chloromethane	Blank	<0.04	ug/m3	
	Bromomethane	Blank	<0.08	ug/m3	
	Chloroethane	Blank	<0.06	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	Chlorodibromomethane	Blank	<0.18	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.11	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 2 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133037					
	Bromoform	Blank	<0.21	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.14	ug/m3	
	Hexachlorobutadiene	Blank	<0.43	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.30	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.10	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.10	ug/m3	
	Cyclohexane	Blank	<0.07	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	1,2-Dichloropropane	Blank	<0.10	ug/m3	
	Dichlorodifluoromethane	Blank	<0.10	ug/m3	
	Benzyl Chloride	Blank	<0.11	ug/m3	
	Carbon Disulfide	Blank	<0.07	ug/m3	
	Vinyl Acetate	Blank	<0.15	ug/m3	
	2-Hexanone	Blank	<0.08	ug/m3	
	Bromodichloromethane	Blank	<0.14	ug/m3	
	1,2-Dibromoethane	Blank	<0.16	ug/m3	
	n-Heptane	Blank	<0.08	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.14	ug/m3	
	Tetrahydrofuran	Blank	<0.06	ug/m3	
	Propene	Blank	<0.14	ug/m3	
	1,3-Butadiene	Blank	<0.05	ug/m3	
BLANK-133038					
	Acetone	Blank	0.75	ug/m3	
	Benzene	Blank	<0.08	ug/m3	
	Carbon Tetrachloride	Blank	<0.16	ug/m3	
	Chloroform	Blank	<0.12	ug/m3	
	1,2-Dichloroethane	Blank	<0.10	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.15	ug/m3	
	Ethyl Acetate	Blank	<0.09	ug/m3	
	Ethylbenzene	Blank	<0.11	ug/m3	
	Hexane	Blank	<0.09	ug/m3	
	Isopropanol	Blank	<0.13	ug/m3	
	2-Butanone (MEK)	Blank	0.19	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.10	ug/m3	
	Styrene	Blank	<0.11	ug/m3	
	Tetrachloroethylene	Blank	<0.17	ug/m3	
	Toluene	Blank	<0.10	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.14	ug/m3	
	Trichloroethylene	Blank	<0.14	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.19	ug/m3	
	Trichlorofluoromethane	Blank	<0.14	ug/m3	
	o-Xylene	Blank	<0.11	ug/m3	
	m/p-Xylene	Blank	<0.22	ug/m3	



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 3 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133038					
	1,2-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,1-Dichloroethane	Blank	<0.10	ug/m3	
	1,1-Dichloroethylene	Blank	<0.10	ug/m3	
	Ethanol	Blank	<0.48	ug/m3	
	4-Ethyl Toluene	Blank	<0.13	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.09	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.10	ug/m3	
	Vinyl Chloride	Blank	<0.07	ug/m3	
	Methylene Chloride	Blank	1.13	ug/m3	
	Chlorobenzene	Blank	<0.12	ug/m3	
	Chloromethane	Blank	<0.05	ug/m3	
	Bromomethane	Blank	<0.10	ug/m3	
	Chloroethane	Blank	<0.07	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	Chlorodibromomethane	Blank	<0.22	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.14	ug/m3	
	Bromoform	Blank	<0.26	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.17	ug/m3	
	Hexachlorobutadiene	Blank	<0.54	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.38	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.13	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.13	ug/m3	
	Cyclohexane	Blank	<0.09	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.10	ug/m3	
	1,2-Dichloropropane	Blank	<0.12	ug/m3	
	Dichlorodifluoromethane	Blank	<0.13	ug/m3	
	Benzyl Chloride	Blank	<0.13	ug/m3	
	Carbon Disulfide	Blank	<0.08	ug/m3	
	Vinyl Acetate	Blank	<0.18	ug/m3	
	2-Hexanone	Blank	<0.10	ug/m3	
	Bromodichloromethane	Blank	<0.17	ug/m3	
	1,2-Dibromoethane	Blank	<0.19	ug/m3	
	n-Heptane	Blank	<0.10	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.18	ug/m3	
	Tetrahydrofuran	Blank	<0.08	ug/m3	
	Propene	Blank	<0.18	ug/m3	
	1,3-Butadiene	Blank	<0.06	ug/m3	
LFBLANK-95362					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	9.79	ug/m3	
		Lab Fort Blk. % Rec.	82.44	%	50-150



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 4 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95362					
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.12	ug/m3	
		Lab Fort Blk. % Rec.	94.83	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	25.79	ug/m3	
		Lab Fort Blk. % Rec.	82.01	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	23.95	ug/m3	
		Lab Fort Blk. % Rec.	98.42	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.27	ug/m3	
		Lab Fort Blk. % Rec.	90.27	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	33.60	ug/m3	
		Lab Fort Blk. % Rec.	111.78	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.07	ug/m3	
		Lab Fort Blk. % Rec.	111.44	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	20.31	ug/m3	
		Lab Fort Blk. % Rec.	93.74	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	16.27	ug/m3	
		Lab Fort Blk. % Rec.	92.38	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	11.48	ug/m3	
		Lab Fort Blk. % Rec.	93.44	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.92	ug/m3	
		Lab Fort Blk. % Rec.	94.42	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	20.13	ug/m3	
		Lab Fort Blk. % Rec.	98.27	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	22.80	ug/m3	
		Lab Fort Blk. % Rec.	107.22	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	33.53	ug/m3	
		Lab Fort Blk. % Rec.	98.89	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.65	ug/m3	
		Lab Fort Blk. % Rec.	93.86	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 5 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95362	1,1,1-Trichloroethane	Lab Fort Blk. Found	22.44	ug/m3	
		Lab Fort Blk. % Rec.	82.28	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	25.13	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blk. % Rec.	93.54	%	70-130
		Lab Fort Blank Amt.	38.31	ug/m3	
	Trichlorofluoromethane	Lab Fort Blk. Found	37.24	ug/m3	
		Lab Fort Blk. % Rec.	97.20	%	70-130
	o-Xylene	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	25.85	ug/m3	
	m/p-Xylene	Lab Fort Blk. % Rec.	92.03	%	70-130
		Lab Fort Blank Amt.	21.71	ug/m3	
	1,2-Dichlorobenzene	Lab Fort Blk. Found	20.35	ug/m3	
		Lab Fort Blk. % Rec.	93.72	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	40.46	ug/m3	
	1,1-Dichloroethane	Lab Fort Blk. % Rec.	93.16	%	70-130
		Lab Fort Blank Amt.	30.06	ug/m3	
	1,1-Dichloroethylene	Lab Fort Blk. Found	35.21	ug/m3	
		Lab Fort Blk. % Rec.	117.14	%	70-130
	Ethanol	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	33.66	ug/m3	
	4-Ethyl Toluene	Lab Fort Blk. % Rec.	111.98	%	70-130
		Lab Fort Blank Amt.	20.24	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blk. Found	20.43	ug/m3	
		Lab Fort Blk. % Rec.	100.92	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.90	ug/m3	
	Vinyl Chloride	Lab Fort Blk. % Rec.	95.28	%	70-130
		Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	6.75	ug/m3	
		Lab Fort Blk. % Rec.	71.69	%	50-150
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.94	ug/m3	
		Lab Fort Blk. % Rec.	105.56	%	50-150
		Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	18.93	ug/m3	
		Lab Fort Blk. % Rec.	105.06	%	70-130
		Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.29	ug/m3	
		Lab Fort Blk. % Rec.	102.36	%	70-130
		Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	14.20	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 6 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95362					
	Vinyl Chloride	Lab Fort Blk. % Rec.	111.14	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.82	ug/m3	
	Chlorobenzene	Lab Fort Blk. % Rec.	114.16	%	70-130
		Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	22.32	ug/m3	
	Chloromethane	Lab Fort Blk. % Rec.	96.93	%	70-130
		Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	10.84	ug/m3	
	Bromomethane	Lab Fort Blk. % Rec.	105.08	%	70-130
		Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	20.38	ug/m3	
	Chloroethane	Lab Fort Blk. % Rec.	105.06	%	70-130
		Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.29	ug/m3	
	cis-1,3-Dichloropropene	Lab Fort Blk. % Rec.	115.92	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	21.75	ug/m3	
	trans-1,3-Dichloropropene	Lab Fort Blk. % Rec.	95.86	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	20.55	ug/m3	
	Chlorodibromomethane	Lab Fort Blk. % Rec.	90.55	%	70-130
		Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	38.91	ug/m3	
	1,1,2-Trichloroethane	Lab Fort Blk. % Rec.	91.35	%	70-130
		Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.81	ug/m3	
	Bromoform	Lab Fort Blk. % Rec.	98.28	%	70-130
		Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	50.28	ug/m3	
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	97.25	%	70-130
		Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	36.02	ug/m3	
	Hexachlorobutadiene	Lab Fort Blk. % Rec.	104.92	%	70-130
		Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	61.50	ug/m3	
	1,2,4-Trichlorobenzene	Lab Fort Blk. % Rec.	115.32	%	70-130
		Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	47.69	ug/m3	
	1,2,4-Trimethylbenzene	Lab Fort Blk. % Rec.	128.54	%	70-130
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.19	ug/m3	
		Lab Fort Blk. % Rec.	106.56	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 7 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95362					
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.10	ug/m3	
		Lab Fort Blk. % Rec.	98.06	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	17.70	ug/m3	
		Lab Fort Blk. % Rec.	102.88	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.08	ug/m3	
		Lab Fort Blk. % Rec.	101.32	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	21.65	ug/m3	
		Lab Fort Blk. % Rec.	93.69	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	22.70	ug/m3	
		Lab Fort Blk. % Rec.	91.84	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	30.12	ug/m3	
		Lab Fort Blk. % Rec.	116.36	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	17.04	ug/m3	
		Lab Fort Blk. % Rec.	109.50	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	18.16	ug/m3	
		Lab Fort Blk. % Rec.	103.20	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	21.06	ug/m3	
		Lab Fort Blk. % Rec.	102.86	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	31.04	ug/m3	
		Lab Fort Blk. % Rec.	92.65	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	34.56	ug/m3	
		Lab Fort Blk. % Rec.	89.96	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	20.02	ug/m3	
		Lab Fort Blk. % Rec.	97.71	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	35.29	ug/m3	
		Lab Fort Blk. % Rec.	100.98	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	16.27	ug/m3	
		Lab Fort Blk. % Rec.	110.40	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 8 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95362	Propene	Lab Fort Blk. Found	8.10	ug/m3	
		Lab Fort Blk. % Rec.	94.22	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	12.10	ug/m3	
LFBLANK-95363	Acetone	Lab Fort Blk. Found	11.87	ug/m3	
		Lab Fort Blk. % Rec.	82.76	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	14.72	ug/m3	
Carbon Tetrachloride	Lab Fort Blk. % Rec.	92.33	%	70-130	
	Lab Fort Blank Amt.	31.45	ug/m3		
	Lab Fort Blk. Found	26.16	ug/m3		
Chloroform	Lab Fort Blk. % Rec.	83.18	%	70-130	
	Lab Fort Blank Amt.	24.33	ug/m3		
	Lab Fort Blk. Found	22.09	ug/m3		
1,2-Dichloroethane	Lab Fort Blk. % Rec.	90.78	%	70-130	
	Lab Fort Blank Amt.	20.24	ug/m3		
	Lab Fort Blk. Found	17.47	ug/m3		
1,4-Dichlorobenzene	Lab Fort Blk. % Rec.	86.32	%	70-130	
	Lab Fort Blank Amt.	30.06	ug/m3		
	Lab Fort Blk. Found	34.02	ug/m3		
Ethyl Acetate	Lab Fort Blk. % Rec.	113.20	%	70-130	
	Lab Fort Blank Amt.	18.01	ug/m3		
	Lab Fort Blk. Found	19.26	ug/m3		
Ethylbenzene	Lab Fort Blk. % Rec.	106.92	%	50-150	
	Lab Fort Blank Amt.	21.67	ug/m3		
	Lab Fort Blk. Found	20.53	ug/m3		
Hexane	Lab Fort Blk. % Rec.	94.74	%	70-130	
	Lab Fort Blank Amt.	17.62	ug/m3		
	Lab Fort Blk. Found	16.18	ug/m3		
Isopropanol	Lab Fort Blk. % Rec.	91.84	%	70-130	
	Lab Fort Blank Amt.	12.28	ug/m3		
	Lab Fort Blk. Found	11.29	ug/m3		
2-Butanone (MEK)	Lab Fort Blk. % Rec.	91.90	%	50-150	
	Lab Fort Blank Amt.	14.74	ug/m3		
	Lab Fort Blk. Found	13.36	ug/m3		
4-Methyl-2-Pentanone (MIBK)	Lab Fort Blk. % Rec.	90.65	%	70-130	
	Lab Fort Blank Amt.	20.48	ug/m3		
	Lab Fort Blk. Found	21.83	ug/m3		
Styrene	Lab Fort Blk. % Rec.	106.60	%	70-130	
	Lab Fort Blank Amt.	21.26	ug/m3		



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 9 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95363					
	Styrene	Lab Fort Blk. Found	22.75	ug/m3	
		Lab Fort Blk. % Rec.	107.00	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	33.58	ug/m3	
		Lab Fort Blk. % Rec.	99.03	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.74	ug/m3	
		Lab Fort Blk. % Rec.	94.30	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	23.12	ug/m3	
		Lab Fort Blk. % Rec.	84.78	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	25.60	ug/m3	
		Lab Fort Blk. % Rec.	95.29	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	34.31	ug/m3	
		Lab Fort Blk. % Rec.	89.56	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	27.51	ug/m3	
		Lab Fort Blk. % Rec.	97.93	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	20.86	ug/m3	
		Lab Fort Blk. % Rec.	96.08	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	42.13	ug/m3	
		Lab Fort Blk. % Rec.	96.99	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.47	ug/m3	
		Lab Fort Blk. % Rec.	118.00	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	33.25	ug/m3	
		Lab Fort Blk. % Rec.	110.64	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	19.53	ug/m3	
		Lab Fort Blk. % Rec.	96.50	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.17	ug/m3	
		Lab Fort Blk. % Rec.	91.64	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	6.51	ug/m3	
		Lab Fort Blk. % Rec.	69.13	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	27.05	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 10 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95363	4-Ethyl Toluene	Lab Fort Blk. % Rec.	110.06	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	16.69	ug/m3	
	t-1,2-Dichloroethylene	Lab Fort Blk. % Rec.	92.61	%	70-130
		Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.43	ug/m3	
	Vinyl Chloride	Lab Fort Blk. % Rec.	98.06	%	70-130
		Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	14.36	ug/m3	
	Methylene Chloride	Lab Fort Blk. % Rec.	112.40	%	70-130
		Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.63	ug/m3	
	Chlorobenzene	Lab Fort Blk. % Rec.	113.12	%	70-130
		Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	22.58	ug/m3	
	Chloromethane	Lab Fort Blk. % Rec.	98.09	%	70-130
		Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	11.24	ug/m3	
	Bromomethane	Lab Fort Blk. % Rec.	108.88	%	70-130
		Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.95	ug/m3	
	Chloroethane	Lab Fort Blk. % Rec.	102.84	%	70-130
		Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.46	ug/m3	
	cis-1,3-Dichloropropene	Lab Fort Blk. % Rec.	117.22	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	21.72	ug/m3	
	trans-1,3-Dichloropropene	Lab Fort Blk. % Rec.	95.71	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	20.95	ug/m3	
	Chlorodibromomethane	Lab Fort Blk. % Rec.	92.32	%	70-130
		Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	39.80	ug/m3	
	1,1,2-Trichloroethane	Lab Fort Blk. % Rec.	93.46	%	70-130
		Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	28.04	ug/m3	
	Bromoform	Lab Fort Blk. % Rec.	102.80	%	70-130
		Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	51.52	ug/m3	
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	99.65	%	70-130
		Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	37.69	ug/m3	
		Lab Fort Blk. % Rec.	109.78	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 11 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95363					
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	62.24	ug/m3	
		Lab Fort Blk. % Rec.	116.70	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	48.56	ug/m3	
		Lab Fort Blk. % Rec.	130.88	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	27.17	ug/m3	
		Lab Fort Blk. % Rec.	110.54	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.62	ug/m3	
		Lab Fort Blk. % Rec.	100.16	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	17.26	ug/m3	
		Lab Fort Blk. % Rec.	100.32	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.00	ug/m3	
		Lab Fort Blk. % Rec.	95.87	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	22.83	ug/m3	
		Lab Fort Blk. % Rec.	98.81	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	22.41	ug/m3	
		Lab Fort Blk. % Rec.	90.65	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	30.04	ug/m3	
		Lab Fort Blk. % Rec.	116.08	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	15.43	ug/m3	
		Lab Fort Blk. % Rec.	99.13	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	17.26	ug/m3	
		Lab Fort Blk. % Rec.	98.04	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	22.28	ug/m3	
		Lab Fort Blk. % Rec.	108.80	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	32.04	ug/m3	
		Lab Fort Blk. % Rec.	95.65	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	35.20	ug/m3	
		Lab Fort Blk. % Rec.	91.62	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 12 of 14

QC Batch Number: BATCH-16666

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95363	n-Heptane	Lab Fort Blk. Found	21.06	ug/m3	
		Lab Fort Blk. % Rec.	102.80	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	35.47	ug/m3	
		Lab Fort Blk. % Rec.	101.48	%	70-130
		Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3
	Lab Fort Blk. Found		15.42	ug/m3	
		Lab Fort Blk. % Rec.	104.60	%	50-150
		Propene	Lab Fort Blank Amt.	8.60	ug/m3
	Lab Fort Blk. Found		7.91	ug/m3	
		Lab Fort Blk. % Rec.	92.00	%	50-150
		1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3
	Lab Fort Blk. Found		12.09	ug/m3	
		Lab Fort Blk. % Rec.	109.38	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 12/10/2009

Lims Bat # : LIMIT-25332

Page 13 of 14

NOTES:

QC Batch No. : BATCH-16666

Sample ID : LFBLANK-95363

Analysis : 1,2,4-Trichlorobenzene

LABORATORY FORTIFIED BLANK 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.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 12/10/2009 Lims Bat #: LIMIT-25332 Page 14 of 14

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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

AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: MACTEC Engineering
 Address: 107 Audubon Rd, Suite 301
Wakefield, MA 01880

Telephone: (781) 245-6406
 Project # 365008014.13
 Client PO # 200914545

Attention: Kelly Chatterton

Project Location: Providence, RI (Lockman Ste)
 Sampled By: PSM

Proposal Provided? (For Billing purposes)
 Yes 3-3-09 proposal date

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #:
 Email: KyChatterton@mactec.com **ECMS**
 Format: EXCEL PDF GIS KEY OTHER EXCEL

ANALYSIS REQUESTED

"Hg"

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.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Time	Stop Date Time	Total Minutes Sampled	Flow Rate (L/Min. or M ³ /Min.)	Volume (Liters or M ³)	Matrix Code*	ANALYSIS REQUESTED		
										Start Date Time	Stop Date Time	Summa Canister ID
IA-1-120209	S		14960	12-2-09 1553	12-2-09 1623	30	0.2	6	IA	X		
SG-16-120209	S		14961	12-2-09 1625	12-2-09 1655	30	0.2	6	SG	X		

Laboratory Comments: SG-16-120209 (15)

CLIENT COMMENTS: SG-16-120209 was sampled from source area soil gas
TP = 04 ppm

Retinquired by: (signature) _____ Date/Time: 12-3-09/1210

Received by: (signature) _____ Date/Time: 12-3-09 1210

Retinquired by: (signature) _____ Date/Time: 12-3-09 1730

Received by: (signature) _____ Date/Time: 12/3/09 1730

Turnaround **
 7-Day
 10-Day
 Other: 5
RUSH * day

Regulations: Target Indoor Air (Commercial)
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 Required Detection Limits: Target Indoor Air (Comm. Commercial)

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

**Media Codes: S=Summa can
 TB=teflon 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.
 AIHA, NELAP & WBE/DBE Certified



www.contestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Mactec DATE: 12/3/09
RECEIVED BY: Ka

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE: _____

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored: Air Lab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	2
Tedlar Bags	
Regulators	2
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program? Y
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet? Y
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet? Y
- 4. Was the job documented in the Air Lab Log-In Access Database? Y

Laboratory comments: _____



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

REPORT DATE 1/6/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200904907

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25337
JOB NUMBER: 3650080114

PROJECT LOCATION: GORHAM SITE, PROVIDENCE, RI

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
AA-1-122909	10B00003	AIR	Not Specified	to-15 ppbv	
AA-1-122909	10B00003	AIR	Not Specified	to-15 ug/m3	
EW-5-122909	10B00006	AIR	Not Specified	to-15 ppbv	
EW-5-122909	10B00006	AIR	Not Specified	to-15 ug/m3	
EW-6-122909	10B00005	AIR	Not Specified	to-15 ppbv	
EW-6-122909	10B00005	AIR	Not Specified	to-15 ug/m3	
EW-7-122909	10B00004	AIR	Not Specified	to-15 ppbv	
EW-7-122909	10B00004	AIR	Not Specified	to-15 ug/m3	
IA-5-122909	10B00002	AIR	Not Specified	to-15 ppbv	
IA-5-122909	10B00002	AIR	Not Specified	to-15 ug/m3	
IA-6-122909	10B00001	AIR	Not Specified	to-15 ppbv	
IA-6-122909	10B00001	AIR	Not Specified	to-15 ug/m3	
IA-7-122909	10B00000	AIR	Not Specified	to-15 ppbv	
IA-7-122909	10B00000	AIR	Not Specified	to-15 ug/m3	

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:



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

REPORT DATE 1/6/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200904907

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25337
JOB NUMBER: 3650080114

Comments :

LIMS BATCH NO. : LIMIT-25337

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133039 contained Acetone at 0.38 ppbv = 1.3 ug/m3 and 2-Butanone(MEK) at 0.02 ppbv = 0.08 ug/m3.

In method TO-15, any reported result for Chloroethane in samples 10B00004 - 10B00006 is estimated and likely to be biased on the high side based on continuing calibration bias.

In method TO-15, any reported result for Vinyl Chloride in samples 10B00004 and 10B00006 is estimated and likely to be biased on the high side based on continuing calibration bias.

In method TO-15, any reported result for Chloroethane in samples 10B00004 - 10B00006 is likely to be biased on the high side based on laboratory fortified blank recovery bias.

In method TO-15, any reported result for Vinyl Chloride in samples 10B00004 and 10B00006 is likely to be biased on the high side based on laboratory fortified blank recovery bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include samples 10B00000-10B00006, blank-133039, and blank-133040 with their respective dilutions and compounds.

Method blank-133039 is associated with samples 10B00000 - 10B00006.
Method blank-133040 is associated with sample 10B00006 200x dilution.

Lfblank-95364 is associated with samples 10B00000 - 10B00006.
Lfblank-95365 is associated with sample 10B00006 200x dilution.

In method TO-15, for Chloromethane and 1,3-Butadiene, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033 AIHA ELLAP (LEAD) 100033 NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100 NEW HAMPSHIRE NELAP 2516 NEW JERSEY NELAP NJ MA007 (AIR)



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REPORT DATE 1/6/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200904907

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-25337

JOB NUMBER: 3650080114

CONNECTICUT PH-0567
NEW YORK ELAP/NELAP 10899

VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

FLORIDA DOH E871027 (AIR)

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.

SIGNATURE

DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample



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Purchase Order No.: 200904907

1/6/2010
 Page 1 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : AA-1-122909

Sample ID : 10B00003 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	4.6	0.05		01/05/10	WSD
Benzene	PPBv	0.13	0.05		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/05/10	WSD
Bromoform	PPBv	ND	0.05		01/05/10	WSD
Bromomethane	PPBv	ND	0.05		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.05		01/05/10	WSD
2-Butanone (MEK)	PPBv	0.67	0.05		01/05/10	WSD
Carbon Disulfide	PPBv	ND	0.05		01/05/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/05/10	WSD
Chloroethane	PPBv	ND	0.05		01/05/10	WSD
Chloroform	PPBv	ND	0.05		01/05/10	WSD
Chloromethane	PPBv	0.80	0.05		01/05/10	WSD
Cyclohexane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Dichlorodifluoromethane	PPBv	0.42	0.05		01/05/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/05/10	WSD
Ethanol	PPBv	2.0	0.05		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.05		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/05/10	WSD
n-Heptane	PPBv	ND	0.05		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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1/6/2010
 Page 2 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : AA-1-122909

Sample ID : 10B00003 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.10		01/05/10	WSD
Hexane	PPBv	0.18	0.05		01/05/10	WSD
2-Hexanone	PPBv	ND	0.05		01/05/10	WSD
Isopropanol	PPBv	0.22	0.05		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/05/10	WSD
Methylene Chloride	PPBv	1.3	0.05		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/05/10	WSD
Propene	PPBv	ND	0.20		01/05/10	WSD
Styrene	PPBv	ND	0.05		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/05/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		01/05/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		01/05/10	WSD
Toluene	PPBv	0.21	0.05		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
Trichloroethylene	PPBv	ND	0.05		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.39	0.05		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
Vinyl Acetate	PPBv	ND	0.10		01/05/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/05/10	WSD
m/p-Xylene	PPBv	ND	0.10		01/05/10	WSD
o-Xylene	PPBv	ND	0.05		01/05/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	11	0.12		01/05/10	WSD
Benzene	ug/m3	0.42	0.16		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/05/10	WSD
Bromoform	ug/m3	ND	0.51		01/05/10	WSD
Bromomethane	ug/m3	ND	0.19		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	0.11		01/05/10	WSD
2-Butanone (MEK)	ug/m3	2.0	0.15		01/05/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		01/05/10	WSD

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KELLY CHATTERTON
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WAKEFIELD, MA 01880

1/6/2010
Page 3 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
Job Number: 3650080114

Field Sample # : AA-1-122909

Sample ID : 10B00003 ‡Sampled : 12/29/2009
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.39	0.31		01/05/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/05/10	WSD
Chloroethane	ug/m3	ND	0.13		01/05/10	WSD
Chloroform	ug/m3	ND	0.24		01/05/10	WSD
Chloromethane	ug/m3	1.6	0.10		01/05/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	2.1	0.25		01/05/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/05/10	WSD
Ethanol	ug/m3	3.8	0.09		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/05/10	WSD
Ethylbenzene	ug/m3	ND	0.22		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/05/10	WSD
n-Heptane	ug/m3	ND	0.20		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		01/05/10	WSD
Hexane	ug/m3	0.62	0.18		01/05/10	WSD
2-Hexanone	ug/m3	ND	0.20		01/05/10	WSD
Isopropanol	ug/m3	0.54	0.12		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/05/10	WSD
Methylene Chloride	ug/m3	4.6	0.17		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/05/10	WSD
Propene	ug/m3	ND	0.35		01/05/10	WSD
Styrene	ug/m3	ND	0.21		01/05/10	WSD

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KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 4 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : AA-1-122909

Sample ID : 10B00003 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/05/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		01/05/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		01/05/10	WSD
Toluene	ug/m3	0.78	0.19		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.75		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
Trichloroethylene	ug/m3	ND	0.27		01/05/10	WSD
Trichlorofluoromethane	ug/m3	2.2	0.28		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.54	0.38		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	0.36		01/05/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/05/10	WSD
m/p-Xylene	ug/m3	ND	0.43		01/05/10	WSD
o-Xylene	ug/m3	ND	0.22		01/05/10	WSD

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 5 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-5-122909

Sample ID : 10B00006 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	720	0.50		01/05/10	WSD
Benzene	PPBv	2.0	0.50		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.50		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.50		01/05/10	WSD
Bromoform	PPBv	ND	0.50		01/05/10	WSD
Bromomethane	PPBv	ND	0.50		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.50		01/05/10	WSD
2-Butanone (MEK)	PPBv	2600	0.50		01/05/10	WSD
Carbon Disulfide	PPBv	0.93	0.50		01/05/10	WSD
Carbon Tetrachloride	PPBv	ND	0.50		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.50		01/05/10	WSD
Chloroethane	PPBv	2.4	0.50		01/05/10	WSD
Chloroform	PPBv	0.53	0.50		01/05/10	WSD
Chloromethane	PPBv	ND	0.50		01/05/10	WSD
Cyclohexane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Dichlorodifluoromethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethane	PPBv	26	0.50		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethylene	PPBv	7.5	0.50		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	15	0.50		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.50		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.50		01/05/10	WSD
Ethanol	PPBv	24	0.50		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.50		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.50		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.50		01/05/10	WSD
n-Heptane	PPBv	ND	0.50		01/05/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 6 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-5-122909

Sample ID : 10B00006 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		01/05/10	WSD
Hexane	PPBv	ND	0.50		01/05/10	WSD
2-Hexanone	PPBv	ND	0.50		01/05/10	WSD
Isopropanol	PPBv	ND	1.0		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.50		01/05/10	WSD
Methylene Chloride	PPBv	7.3	0.50		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.50		01/05/10	WSD
Propene	PPBv	ND	2.0		01/05/10	WSD
Styrene	PPBv	ND	0.50		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.50		01/05/10	WSD
Tetrachloroethylene	PPBv	1.3	0.50		01/05/10	WSD
Tetrahydrofuran	PPBv	3300	0.50		01/05/10	WSD
Toluene	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	170	0.50		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.50		01/05/10	WSD
Trichloroethylene	PPBv	290	0.50		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	9.5	0.50		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
Vinyl Acetate	PPBv	ND	1.0		01/05/10	WSD
Vinyl Chloride	PPBv	1.2	0.50		01/05/10	WSD
m/p-Xylene	PPBv	ND	1.0		01/05/10	WSD
o-Xylene	PPBv	ND	0.50		01/05/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	1700	1.2		01/05/10	WSD
Benzene	ug/m3	6.3	1.6		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	2.6		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	3.3		01/05/10	WSD
Bromoform	ug/m3	ND	5.1		01/05/10	WSD
Bromomethane	ug/m3	ND	1.9		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	1.1		01/05/10	WSD
2-Butanone (MEK)	ug/m3	7800	1.5		01/05/10	WSD
Carbon Disulfide	ug/m3	2.9	1.6		01/05/10	WSD

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KELLY CHATTERTON
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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 7 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-5-122909

Sample ID : 10B00006 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	3.1		01/05/10	WSD
Chlorobenzene	ug/m3	ND	2.3		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	4.3		01/05/10	WSD
Chloroethane	ug/m3	6.5	1.3		01/05/10	WSD
Chloroform	ug/m3	2.6	2.4		01/05/10	WSD
Chloromethane	ug/m3	ND	1.0		01/05/10	WSD
Cyclohexane	ug/m3	ND	1.7		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	3.8		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	ND	2.5		01/05/10	WSD
1,1-Dichloroethane	ug/m3	100	2.0		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	2.0		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	30	2.0		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	58	2.0		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	2.0		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	2.3		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	3.5		01/05/10	WSD
Ethanol	ug/m3	45	0.90		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	1.8		01/05/10	WSD
Ethylbenzene	ug/m3	ND	2.2		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	2.5		01/05/10	WSD
n-Heptane	ug/m3	ND	2.0		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	11		01/05/10	WSD
Hexane	ug/m3	ND	1.8		01/05/10	WSD
2-Hexanone	ug/m3	ND	2.0		01/05/10	WSD
Isopropanol	ug/m3	ND	2.5		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	1.8		01/05/10	WSD
Methylene Chloride	ug/m3	25	1.7		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	2.0		01/05/10	WSD
Propene	ug/m3	ND	3.5		01/05/10	WSD
Styrene	ug/m3	ND	2.1		01/05/10	WSD

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KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 8 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-5-122909

Sample ID : 10B00006 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.4		01/05/10	WSD
Tetrachloroethylene	ug/m3	8.9	3.4		01/05/10	WSD
Tetrahydrofuran	ug/m3	9700	1.5		01/05/10	WSD
Toluene	ug/m3	ND	1.9		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.5		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	920	2.7		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	2.7		01/05/10	WSD
Trichloroethylene	ug/m3	1600	2.7		01/05/10	WSD
Trichlorofluoromethane	ug/m3	53	2.8		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	3.8		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	3.6		01/05/10	WSD
Vinyl Chloride	ug/m3	3.0	1.3		01/05/10	WSD
m/p-Xylene	ug/m3	ND	4.3		01/05/10	WSD
o-Xylene	ug/m3	ND	2.2		01/05/10	WSD

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MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880

1/6/2010
Page 9 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
Job Number: 3650080114

Field Sample # : EW-6-122909

Sample ID : 10B00005 ‡Sampled : 12/29/2009
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	11	0.50		01/05/10	WSD
Benzene	PPBv	ND	0.50		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.50		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.50		01/05/10	WSD
Bromoform	PPBv	ND	0.50		01/05/10	WSD
Bromomethane	PPBv	ND	0.50		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.50		01/05/10	WSD
2-Butanone (MEK)	PPBv	7.8	0.50		01/05/10	WSD
Carbon Disulfide	PPBv	ND	0.50		01/05/10	WSD
Carbon Tetrachloride	PPBv	ND	0.50		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.50		01/05/10	WSD
Chloroethane	PPBv	1.5	0.50		01/05/10	WSD
Chloroform	PPBv	1.5	0.50		01/05/10	WSD
Chloromethane	PPBv	ND	0.50		01/05/10	WSD
Cyclohexane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Dichlorodifluoromethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethane	PPBv	140	0.50		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethylene	PPBv	1.6	0.50		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	9.1	0.50		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	0.52	0.50		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.50		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.50		01/05/10	WSD
Ethanol	PPBv	9.8	0.50		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.50		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.50		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.50		01/05/10	WSD
n-Heptane	PPBv	ND	0.50		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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

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MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880

1/6/2010
Page 10 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
Job Number: 3650080114

Field Sample # : EW-6-122909

Sample ID : 10B00005 ‡Sampled : 12/29/2009
Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		01/05/10	WSD
Hexane	PPBv	ND	0.50		01/05/10	WSD
2-Hexanone	PPBv	ND	0.50		01/05/10	WSD
Isopropanol	PPBv	ND	1.0		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.50		01/05/10	WSD
Methylene Chloride	PPBv	7.7	0.50		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.50		01/05/10	WSD
Propene	PPBv	ND	2.0		01/05/10	WSD
Styrene	PPBv	ND	0.50		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.50		01/05/10	WSD
Tetrachloroethylene	PPBv	10.0	0.50		01/05/10	WSD
Tetrahydrofuran	PPBv	11	0.50		01/05/10	WSD
Toluene	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	200	0.50		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.50		01/05/10	WSD
Trichloroethylene	PPBv	370	0.50		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	56	0.50		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
Vinyl Acetate	PPBv	ND	1.0		01/05/10	WSD
Vinyl Chloride	PPBv	ND	0.50		01/05/10	WSD
m/p-Xylene	PPBv	ND	1.0		01/05/10	WSD
o-Xylene	PPBv	ND	0.50		01/05/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	27	1.2		01/05/10	WSD
Benzene	ug/m3	ND	1.6		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	2.6		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	3.3		01/05/10	WSD
Bromoform	ug/m3	ND	5.1		01/05/10	WSD
Bromomethane	ug/m3	ND	1.9		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	1.1		01/05/10	WSD
2-Butanone (MEK)	ug/m3	23	1.5		01/05/10	WSD
Carbon Disulfide	ug/m3	ND	1.6		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

 1/6/2010
 Page 11 of 29

 Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

 LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-6-122909
Sample ID : 10B00005 ‡Sampled : 12/29/2009
 Not Specified
 Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	3.1		01/05/10	WSD
Chlorobenzene	ug/m3	ND	2.3		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	4.3		01/05/10	WSD
Chloroethane	ug/m3	4.0	1.3		01/05/10	WSD
Chloroform	ug/m3	7.2	2.4		01/05/10	WSD
Chloromethane	ug/m3	ND	1.0		01/05/10	WSD
Cyclohexane	ug/m3	ND	1.7		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	3.8		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	ND	2.5		01/05/10	WSD
1,1-Dichloroethane	ug/m3	580	2.0		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	2.0		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	6.4	2.0		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	36	2.0		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	2.1	2.0		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	2.3		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	3.5		01/05/10	WSD
Ethanol	ug/m3	18	0.90		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	1.8		01/05/10	WSD
Ethylbenzene	ug/m3	ND	2.2		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	2.5		01/05/10	WSD
n-Heptane	ug/m3	ND	2.0		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	11		01/05/10	WSD
Hexane	ug/m3	ND	1.8		01/05/10	WSD
2-Hexanone	ug/m3	ND	2.0		01/05/10	WSD
Isopropanol	ug/m3	ND	2.5		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	1.8		01/05/10	WSD
Methylene Chloride	ug/m3	27	1.7		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	2.0		01/05/10	WSD
Propene	ug/m3	ND	3.5		01/05/10	WSD
Styrene	ug/m3	ND	2.1		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 12 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-6-122909

Sample ID : 10B00005 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.4		01/05/10	WSD
Tetrachloroethylene	ug/m3	68	3.4		01/05/10	WSD
Tetrahydrofuran	ug/m3	31	1.5		01/05/10	WSD
Toluene	ug/m3	ND	1.9		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.5		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	1100	2.7		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	2.7		01/05/10	WSD
Trichloroethylene	ug/m3	2000	2.7		01/05/10	WSD
Trichlorofluoromethane	ug/m3	320	2.8		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	3.8		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	3.6		01/05/10	WSD
Vinyl Chloride	ug/m3	ND	1.3		01/05/10	WSD
m/p-Xylene	ug/m3	ND	4.3		01/05/10	WSD
o-Xylene	ug/m3	ND	2.2		01/05/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 13 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-7-122909

Sample ID : 10B00004 ‡Sampled : 12/29/2009
 Not Specified
 Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	20	0.50		01/05/10	WSD
Benzene	PPBv	0.70	0.50		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.50		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.50		01/05/10	WSD
Bromoform	PPBv	ND	0.50		01/05/10	WSD
Bromomethane	PPBv	ND	0.50		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.50		01/05/10	WSD
2-Butanone (MEK)	PPBv	1.2	0.50		01/05/10	WSD
Carbon Disulfide	PPBv	ND	0.50		01/05/10	WSD
Carbon Tetrachloride	PPBv	ND	0.50		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.50		01/05/10	WSD
Chloroethane	PPBv	2.5	0.50		01/05/10	WSD
Chloroform	PPBv	0.55	0.50		01/05/10	WSD
Chloromethane	PPBv	ND	0.50		01/05/10	WSD
Cyclohexane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.50		01/05/10	WSD
Dichlorodifluoromethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethane	PPBv	120	0.50		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.50		01/05/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.50		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	170	0.50		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	21	0.50		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.50		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.50		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.50		01/05/10	WSD
Ethanol	PPBv	9.4	0.50		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.50		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.50		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.50		01/05/10	WSD
n-Heptane	PPBv	ND	0.50		01/05/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 14 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-7-122909

Sample ID : 10B00004 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	1.0		01/05/10	WSD
Hexane	PPBv	ND	0.50		01/05/10	WSD
2-Hexanone	PPBv	ND	0.50		01/05/10	WSD
Isopropanol	PPBv	ND	1.0		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.50		01/05/10	WSD
Methylene Chloride	PPBv	7.8	0.50		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.50		01/05/10	WSD
Propene	PPBv	ND	2.0		01/05/10	WSD
Styrene	PPBv	ND	0.50		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.50		01/05/10	WSD
Tetrachloroethylene	PPBv	19	0.50		01/05/10	WSD
Tetrahydrofuran	PPBv	ND	0.50		01/05/10	WSD
Toluene	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	61	0.50		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.50		01/05/10	WSD
Trichloroethylene	PPBv	78	0.50		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	110	0.50		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.50		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.50		01/05/10	WSD
Vinyl Acetate	PPBv	ND	1.0		01/05/10	WSD
Vinyl Chloride	PPBv	0.62	0.50		01/05/10	WSD
m/p-Xylene	PPBv	ND	1.0		01/05/10	WSD
o-Xylene	PPBv	ND	0.50		01/05/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	49	1.2		01/05/10	WSD
Benzene	ug/m3	2.2	1.6		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	2.6		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	3.3		01/05/10	WSD
Bromoform	ug/m3	ND	5.1		01/05/10	WSD
Bromomethane	ug/m3	ND	1.9		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	1.1		01/05/10	WSD
2-Butanone (MEK)	ug/m3	3.5	1.5		01/05/10	WSD
Carbon Disulfide	ug/m3	ND	1.6		01/05/10	WSD

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 15 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-7-122909

Sample ID : 10B00004 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	3.1		01/05/10	WSD
Chlorobenzene	ug/m3	ND	2.3		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	4.3		01/05/10	WSD
Chloroethane	ug/m3	6.5	1.3		01/05/10	WSD
Chloroform	ug/m3	2.7	2.4		01/05/10	WSD
Chloromethane	ug/m3	ND	1.0		01/05/10	WSD
Cyclohexane	ug/m3	ND	1.7		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	3.8		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	3.0		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	ND	2.5		01/05/10	WSD
1,1-Dichloroethane	ug/m3	470	2.0		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	2.0		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	ND	2.0		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	680	2.0		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	84	2.0		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	2.3		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	2.2		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	3.5		01/05/10	WSD
Ethanol	ug/m3	18	0.90		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	1.8		01/05/10	WSD
Ethylbenzene	ug/m3	ND	2.2		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	2.5		01/05/10	WSD
n-Heptane	ug/m3	ND	2.0		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	11		01/05/10	WSD
Hexane	ug/m3	ND	1.8		01/05/10	WSD
2-Hexanone	ug/m3	ND	2.0		01/05/10	WSD
Isopropanol	ug/m3	ND	2.5		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	1.8		01/05/10	WSD
Methylene Chloride	ug/m3	27	1.7		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	2.0		01/05/10	WSD
Propene	ug/m3	ND	3.5		01/05/10	WSD
Styrene	ug/m3	ND	2.1		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 16 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : EW-7-122909

Sample ID : 10B00004 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.4		01/05/10	WSD
Tetrachloroethylene	ug/m3	130	3.4		01/05/10	WSD
Tetrahydrofuran	ug/m3	ND	1.5		01/05/10	WSD
Toluene	ug/m3	ND	1.9		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.5		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	340	2.7		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	2.7		01/05/10	WSD
Trichloroethylene	ug/m3	420	2.7		01/05/10	WSD
Trichlorofluoromethane	ug/m3	620	2.8		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	3.8		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	2.5		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	3.6		01/05/10	WSD
Vinyl Chloride	ug/m3	1.6	1.3		01/05/10	WSD
m/p-Xylene	ug/m3	ND	4.3		01/05/10	WSD
o-Xylene	ug/m3	ND	2.2		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 17 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-5-122909

Sample ID : 10B00002 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	6.2	0.05		01/05/10	WSD
Benzene	PPBv	0.14	0.05		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/05/10	WSD
Bromoform	PPBv	ND	0.05		01/05/10	WSD
Bromomethane	PPBv	ND	0.05		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.05		01/05/10	WSD
2-Butanone (MEK)	PPBv	0.27	0.05		01/05/10	WSD
Carbon Disulfide	PPBv	ND	0.05		01/05/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/05/10	WSD
Chloroethane	PPBv	ND	0.05		01/05/10	WSD
Chloroform	PPBv	ND	0.05		01/05/10	WSD
Chloromethane	PPBv	0.99	0.05		01/05/10	WSD
Cyclohexane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Dichlorodifluoromethane	PPBv	0.38	0.05		01/05/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/05/10	WSD
Ethanol	PPBv	27	0.05		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.05		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/05/10	WSD
n-Heptane	PPBv	ND	0.05		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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1/6/2010
 Page 18 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-5-122909

Sample ID : 10B00002 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.10		01/05/10	WSD
Hexane	PPBv	0.16	0.05		01/05/10	WSD
2-Hexanone	PPBv	ND	0.05		01/05/10	WSD
Isopropanol	PPBv	1.5	0.05		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/05/10	WSD
Methylene Chloride	PPBv	1.2	0.05		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/05/10	WSD
Propene	PPBv	ND	0.20		01/05/10	WSD
Styrene	PPBv	ND	0.05		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/05/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		01/05/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		01/05/10	WSD
Toluene	PPBv	0.14	0.05		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
Trichloroethylene	PPBv	ND	0.05		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.33	0.05		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
Vinyl Acetate	PPBv	ND	0.10		01/05/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/05/10	WSD
m/p-Xylene	PPBv	ND	0.10		01/05/10	WSD
o-Xylene	PPBv	ND	0.05		01/05/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	15	0.12		01/05/10	WSD
Benzene	ug/m3	0.45	0.16		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/05/10	WSD
Bromoform	ug/m3	ND	0.51		01/05/10	WSD
Bromomethane	ug/m3	ND	0.19		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	0.11		01/05/10	WSD
2-Butanone (MEK)	ug/m3	0.79	0.15		01/05/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		01/05/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 19 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-5-122909

Sample ID : 10B00002 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.41	0.31		01/05/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/05/10	WSD
Chloroethane	ug/m3	ND	0.13		01/05/10	WSD
Chloroform	ug/m3	ND	0.24		01/05/10	WSD
Chloromethane	ug/m3	2.0	0.10		01/05/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	1.9	0.25		01/05/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/05/10	WSD
Ethanol	ug/m3	51	0.09		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/05/10	WSD
Ethylbenzene	ug/m3	ND	0.22		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/05/10	WSD
n-Heptane	ug/m3	ND	0.20		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		01/05/10	WSD
Hexane	ug/m3	0.57	0.18		01/05/10	WSD
2-Hexanone	ug/m3	ND	0.20		01/05/10	WSD
Isopropanol	ug/m3	3.8	0.12		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/05/10	WSD
Methylene Chloride	ug/m3	4.3	0.17		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/05/10	WSD
Propene	ug/m3	ND	0.35		01/05/10	WSD
Styrene	ug/m3	ND	0.21		01/05/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 20 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-5-122909

Sample ID : 10B00002 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/05/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		01/05/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		01/05/10	WSD
Toluene	ug/m3	0.54	0.19		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.75		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
Trichloroethylene	ug/m3	ND	0.27		01/05/10	WSD
Trichlorofluoromethane	ug/m3	1.8	0.28		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.54	0.38		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	0.36		01/05/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/05/10	WSD
m/p-Xylene	ug/m3	ND	0.43		01/05/10	WSD
o-Xylene	ug/m3	ND	0.22		01/05/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

1/6/2010
 Page 21 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-6-122909

Sample ID : 10B00001 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.7	0.05		01/05/10	WSD
Benzene	PPBv	0.12	0.05		01/05/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/05/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/05/10	WSD
Bromoform	PPBv	ND	0.05		01/05/10	WSD
Bromomethane	PPBv	ND	0.05		01/05/10	WSD
1,3-Butadiene	PPBv	ND	0.05		01/05/10	WSD
2-Butanone (MEK)	PPBv	0.60	0.05		01/05/10	WSD
Carbon Disulfide	PPBv	ND	0.05		01/05/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		01/05/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/05/10	WSD
Chloroethane	PPBv	ND	0.05		01/05/10	WSD
Chloroform	PPBv	ND	0.05		01/05/10	WSD
Chloromethane	PPBv	0.88	0.05		01/05/10	WSD
Cyclohexane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/05/10	WSD
Dichlorodifluoromethane	PPBv	0.38	0.05		01/05/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/05/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/05/10	WSD
Ethanol	PPBv	5.5	0.05		01/05/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/05/10	WSD
Ethylbenzene	PPBv	ND	0.05		01/05/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/05/10	WSD
n-Heptane	PPBv	ND	0.05		01/05/10	WSD

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

1/6/2010
 Page 22 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-6-122909

Sample ID : 10B00001 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.10		01/05/10	WSD
Hexane	PPBv	ND	0.05		01/05/10	WSD
2-Hexanone	PPBv	ND	0.05		01/05/10	WSD
Isopropanol	PPBv	0.57	0.05		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/05/10	WSD
Methylene Chloride	PPBv	0.84	0.05		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/05/10	WSD
Propene	PPBv	ND	0.20		01/05/10	WSD
Styrene	PPBv	ND	0.05		01/05/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/05/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		01/05/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		01/05/10	WSD
Toluene	PPBv	0.13	0.05		01/05/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		01/05/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/05/10	WSD
Trichloroethylene	PPBv	ND	0.05		01/05/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.30	0.05		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		01/05/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/05/10	WSD
Vinyl Acetate	PPBv	ND	0.10		01/05/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/05/10	WSD
m/p-Xylene	PPBv	ND	0.10		01/05/10	WSD
o-Xylene	PPBv	ND	0.05		01/05/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	14	0.12		01/05/10	WSD
Benzene	ug/m3	0.40	0.16		01/05/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/05/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/05/10	WSD
Bromoform	ug/m3	ND	0.51		01/05/10	WSD
Bromomethane	ug/m3	ND	0.19		01/05/10	WSD
1,3-Butadiene	ug/m3	ND	0.11		01/05/10	WSD
2-Butanone (MEK)	ug/m3	1.8	0.15		01/05/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		01/05/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

1/6/2010
 Page 23 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-6-122909

Sample ID : 10B00001 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.40	0.31		01/05/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/05/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/05/10	WSD
Chloroethane	ug/m3	ND	0.13		01/05/10	WSD
Chloroform	ug/m3	ND	0.24		01/05/10	WSD
Chloromethane	ug/m3	1.8	0.10		01/05/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/05/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/05/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/05/10	WSD
Dichlorodifluoromethane	ug/m3	1.9	0.25		01/05/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/05/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		01/05/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/05/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/05/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/05/10	WSD
Ethanol	ug/m3	10	0.09		01/05/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/05/10	WSD
Ethylbenzene	ug/m3	ND	0.22		01/05/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/05/10	WSD
n-Heptane	ug/m3	ND	0.20		01/05/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		01/05/10	WSD
Hexane	ug/m3	ND	0.18		01/05/10	WSD
2-Hexanone	ug/m3	ND	0.20		01/05/10	WSD
Isopropanol	ug/m3	1.4	0.12		01/05/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/05/10	WSD
Methylene Chloride	ug/m3	2.9	0.17		01/05/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/05/10	WSD
Propene	ug/m3	ND	0.35		01/05/10	WSD
Styrene	ug/m3	ND	0.21		01/05/10	WSD

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 24 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-6-122909

Sample ID : 10B00001 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/05/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		01/05/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		01/05/10	WSD
Toluene	ug/m3	0.49	0.19		01/05/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.75		01/05/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/05/10	WSD
Trichloroethylene	ug/m3	ND	0.27		01/05/10	WSD
Trichlorofluoromethane	ug/m3	1.7	0.28		01/05/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.51	0.38		01/05/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/05/10	WSD
Vinyl Acetate	ug/m3	ND	0.36		01/05/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/05/10	WSD
m/p-Xylene	ug/m3	ND	0.43		01/05/10	WSD
o-Xylene	ug/m3	ND	0.22		01/05/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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1/6/2010
 Page 25 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-7-122909

Sample ID : 10B00000 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	13	0.05		01/04/10	WSD
Benzene	PPBv	0.16	0.05		01/04/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/04/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/04/10	WSD
Bromoform	PPBv	ND	0.05		01/04/10	WSD
Bromomethane	PPBv	ND	0.05		01/04/10	WSD
1,3-Butadiene	PPBv	ND	0.05		01/04/10	WSD
2-Butanone (MEK)	PPBv	0.16	0.05		01/04/10	WSD
Carbon Disulfide	PPBv	ND	0.05		01/04/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		01/04/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/04/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/04/10	WSD
Chloroethane	PPBv	ND	0.05		01/04/10	WSD
Chloroform	PPBv	ND	0.05		01/04/10	WSD
Chloromethane	PPBv	1.0	0.05		01/04/10	WSD
Cyclohexane	PPBv	ND	0.05		01/04/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/04/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/04/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/04/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/04/10	WSD
Dichlorodifluoromethane	PPBv	0.43	0.05		01/04/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		01/04/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/04/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		01/04/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.07	0.05		01/04/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		01/04/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/04/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/04/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/04/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/04/10	WSD
Ethanol	PPBv	5.4	0.05		01/04/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/04/10	WSD
Ethylbenzene	PPBv	0.16	0.05		01/04/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/04/10	WSD
n-Heptane	PPBv	ND	0.05		01/04/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

1/6/2010
 Page 26 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-7-122909

Sample ID : 10B00000 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.10		01/04/10	WSD
Hexane	PPBv	0.07	0.05		01/04/10	WSD
2-Hexanone	PPBv	ND	0.05		01/04/10	WSD
Isopropanol	PPBv	0.78	0.05		01/04/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/04/10	WSD
Methylene Chloride	PPBv	0.84	0.05		01/04/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/04/10	WSD
Propene	PPBv	ND	0.20		01/04/10	WSD
Styrene	PPBv	ND	0.05		01/04/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/04/10	WSD
Tetrachloroethylene	PPBv	0.15	0.05		01/04/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		01/04/10	WSD
Toluene	PPBv	0.15	0.05		01/04/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		01/04/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		01/04/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/04/10	WSD
Trichloroethylene	PPBv	0.07	0.05		01/04/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.31	0.05		01/04/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		01/04/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		01/04/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/04/10	WSD
Vinyl Acetate	PPBv	ND	0.10		01/04/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/04/10	WSD
m/p-Xylene	PPBv	0.64	0.10		01/04/10	WSD
o-Xylene	PPBv	0.14	0.05		01/04/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	31	0.12		01/04/10	WSD
Benzene	ug/m3	0.52	0.16		01/04/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/04/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/04/10	WSD
Bromoform	ug/m3	ND	0.51		01/04/10	WSD
Bromomethane	ug/m3	ND	0.19		01/04/10	WSD
1,3-Butadiene	ug/m3	ND	0.11		01/04/10	WSD
2-Butanone (MEK)	ug/m3	0.49	0.15		01/04/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		01/04/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/6/2010
 Page 27 of 29

Purchase Order No.: 200904907

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-7-122909

Sample ID : 10B00000 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.44	0.31		01/04/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/04/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/04/10	WSD
Chloroethane	ug/m3	ND	0.13		01/04/10	WSD
Chloroform	ug/m3	ND	0.24		01/04/10	WSD
Chloromethane	ug/m3	2.1	0.10		01/04/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/04/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/04/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/04/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/04/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/04/10	WSD
Dichlorodifluoromethane	ug/m3	2.1	0.25		01/04/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		01/04/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/04/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		01/04/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.27	0.20		01/04/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		01/04/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/04/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/04/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/04/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/04/10	WSD
Ethanol	ug/m3	10	0.09		01/04/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/04/10	WSD
Ethylbenzene	ug/m3	0.68	0.22		01/04/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/04/10	WSD
n-Heptane	ug/m3	ND	0.20		01/04/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		01/04/10	WSD
Hexane	ug/m3	0.25	0.18		01/04/10	WSD
2-Hexanone	ug/m3	ND	0.20		01/04/10	WSD
Isopropanol	ug/m3	1.9	0.12		01/04/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/04/10	WSD
Methylene Chloride	ug/m3	2.9	0.17		01/04/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/04/10	WSD
Propene	ug/m3	ND	0.35		01/04/10	WSD
Styrene	ug/m3	ND	0.21		01/04/10	WSD

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KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010
 Page 28 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI
 Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337
 Job Number: 3650080114

Field Sample # : IA-7-122909

Sample ID : 10B00000 ‡Sampled : 12/29/2009
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/04/10	WSD
Tetrachloroethylene	ug/m3	1.0	0.34		01/04/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		01/04/10	WSD
Toluene	ug/m3	0.57	0.19		01/04/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.75		01/04/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		01/04/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/04/10	WSD
Trichloroethylene	ug/m3	0.40	0.27		01/04/10	WSD
Trichlorofluoromethane	ug/m3	1.7	0.28		01/04/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.54	0.38		01/04/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		01/04/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/04/10	WSD
Vinyl Acetate	ug/m3	ND	0.36		01/04/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/04/10	WSD
m/p-Xylene	ug/m3	2.8	0.43		01/04/10	WSD
o-Xylene	ug/m3	0.60	0.22		01/04/10	WSD

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KELLY CHATTERTON

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/6/2010

Page 29 of 29

Project Location: GORHAM SITE, PROVIDENCE, RI

Date Received: 12/30/2009

LIMS-BAT #: LIMIT-25337

Job Number: 3650080114

** END OF REPORT **

RL = Reporting Limit

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‡ = See attached chain-of-custody record for time sampled



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 1 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00000	4-Bromofluorobenzene	Surrogate Recovery	93.37	%	70-130
10B00001	4-Bromofluorobenzene	Surrogate Recovery	95.00	%	70-130
10B00002	4-Bromofluorobenzene	Surrogate Recovery	94.00	%	70-130
10B00003	4-Bromofluorobenzene	Surrogate Recovery	94.62	%	70-130
10B00004	4-Bromofluorobenzene	Surrogate Recovery	95.87	%	70-130
10B00005	4-Bromofluorobenzene	Surrogate Recovery	93.25	%	70-130
10B00006	4-Bromofluorobenzene	Surrogate Recovery	95.75	%	70-130
BLANK-133039	Acetone	Blank	0.58	ug/m3	
	Benzene	Blank	<0.08	ug/m3	
	Carbon Tetrachloride	Blank	<0.16	ug/m3	
	Chloroform	Blank	<0.12	ug/m3	
	1,2-Dichloroethane	Blank	<0.10	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.15	ug/m3	
	Ethyl Acetate	Blank	<0.09	ug/m3	
	Ethylbenzene	Blank	<0.11	ug/m3	
	Hexane	Blank	<0.09	ug/m3	
	Isopropanol	Blank	<0.13	ug/m3	
	2-Butanone (MEK)	Blank	0.08	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.10	ug/m3	
	Styrene	Blank	<0.11	ug/m3	
	Tetrachloroethylene	Blank	<0.17	ug/m3	
	Toluene	Blank	<0.10	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.14	ug/m3	
	Trichloroethylene	Blank	<0.14	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.19	ug/m3	
	Trichlorofluoromethane	Blank	<0.14	ug/m3	
	o-Xylene	Blank	<0.11	ug/m3	
	m/p-Xylene	Blank	<0.22	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.15	ug/m3	
	1,1-Dichloroethane	Blank	<0.10	ug/m3	
	1,1-Dichloroethylene	Blank	<0.10	ug/m3	
	Ethanol	Blank	<0.48	ug/m3	
	4-Ethyl Toluene	Blank	<0.13	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.09	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.10	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 2 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133039					
	Vinyl Chloride	Blank	<0.07	ug/m3	
	Methylene Chloride	Blank	1.33	ug/m3	
	Chlorobenzene	Blank	<0.12	ug/m3	
	Chloromethane	Blank	<0.05	ug/m3	
	Bromomethane	Blank	<0.10	ug/m3	
	Chloroethane	Blank	<0.07	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.11	ug/m3	
	Chlorodibromomethane	Blank	<0.22	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.14	ug/m3	
	Bromoform	Blank	<0.26	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.17	ug/m3	
	Hexachlorobutadiene	Blank	<0.54	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.38	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.13	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.13	ug/m3	
	Cyclohexane	Blank	<0.09	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.10	ug/m3	
	1,2-Dichloropropane	Blank	<0.12	ug/m3	
	Dichlorodifluoromethane	Blank	<0.13	ug/m3	
	Benzyl Chloride	Blank	<0.13	ug/m3	
	Carbon Disulfide	Blank	<0.08	ug/m3	
	Vinyl Acetate	Blank	<0.18	ug/m3	
	2-Hexanone	Blank	<0.10	ug/m3	
	Bromodichloromethane	Blank	<0.17	ug/m3	
	1,2-Dibromoethane	Blank	<0.19	ug/m3	
	n-Heptane	Blank	<0.10	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.18	ug/m3	
	Tetrahydrofuran	Blank	<0.08	ug/m3	
	Propene	Blank	<0.18	ug/m3	
	1,3-Butadiene	Blank	<0.06	ug/m3	
BLANK-133040					
	Acetone	Blank	<0.60	ug/m3	
	2-Butanone (MEK)	Blank	0.08	ug/m3	
	Trichloroethylene	Blank	<0.14	ug/m3	
	Tetrahydrofuran	Blank	<0.08	ug/m3	
LFBLANK-95364					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	13.00	ug/m3	
		Lab Fort Blk. % Rec.	109.52	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	16.04	ug/m3	
		Lab Fort Blk. % Rec.	100.60	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 3 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95364	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	26.77	ug/m3	
		Lab Fort Blk. % Rec.	85.12	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	22.63	ug/m3	
		Lab Fort Blk. % Rec.	93.00	%	70-130
1,2-Dichloroethane		Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.94	ug/m3	
		Lab Fort Blk. % Rec.	88.62	%	70-130
1,4-Dichlorobenzene		Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	33.02	ug/m3	
		Lab Fort Blk. % Rec.	109.86	%	70-130
Ethyl Acetate		Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.44	ug/m3	
		Lab Fort Blk. % Rec.	113.48	%	50-150
Ethylbenzene		Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.19	ug/m3	
		Lab Fort Blk. % Rec.	102.38	%	70-130
Hexane		Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	17.16	ug/m3	
		Lab Fort Blk. % Rec.	97.42	%	70-130
Isopropanol		Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	12.64	ug/m3	
		Lab Fort Blk. % Rec.	102.92	%	50-150
2-Butanone (MEK)		Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.42	ug/m3	
		Lab Fort Blk. % Rec.	97.86	%	70-130
4-Methyl-2-Pentanone (MIBK)		Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	23.44	ug/m3	
		Lab Fort Blk. % Rec.	114.46	%	70-130
Styrene		Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	22.98	ug/m3	
		Lab Fort Blk. % Rec.	108.08	%	70-130
Tetrachloroethylene		Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	33.16	ug/m3	
		Lab Fort Blk. % Rec.	97.81	%	70-130
Toluene		Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	19.41	ug/m3	
		Lab Fort Blk. % Rec.	103.18	%	70-130
1,1,1-Trichloroethane		Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.65	ug/m3	
		Lab Fort Blk. % Rec.	90.36	%	70-130
Trichloroethylene		Lab Fort Blank Amt.	26.87	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 4 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95364	Trichloroethylene	Lab Fort Blk. Found	27.94	ug/m3	
		Lab Fort Blk. % Rec.	103.98	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	35.23	ug/m3	
		Lab Fort Blk. % Rec.	91.96	%	70-130
		Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3
	Lab Fort Blk. Found		33.96	ug/m3	
		Lab Fort Blk. % Rec.	120.88	%	70-130
		o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3
	Lab Fort Blk. Found		22.23	ug/m3	
		Lab Fort Blk. % Rec.	102.40	%	70-130
		m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3
	Lab Fort Blk. Found		45.93	ug/m3	
		Lab Fort Blk. % Rec.	105.75	%	70-130
		1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3
	Lab Fort Blk. Found		34.43	ug/m3	
		Lab Fort Blk. % Rec.	114.56	%	70-130
		1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3
	Lab Fort Blk. Found		32.91	ug/m3	
		Lab Fort Blk. % Rec.	109.50	%	70-130
		1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3
	Lab Fort Blk. Found		20.29	ug/m3	
		Lab Fort Blk. % Rec.	100.26	%	70-130
		1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3
	Lab Fort Blk. Found		19.09	ug/m3	
		Lab Fort Blk. % Rec.	96.26	%	70-130
		Ethanol	Lab Fort Blank Amt.	9.42	ug/m3
	Lab Fort Blk. Found		10.33	ug/m3	
		Lab Fort Blk. % Rec.	109.68	%	50-150
		4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3
	Lab Fort Blk. Found		28.40	ug/m3	
		Lab Fort Blk. % Rec.	115.56	%	50-150
		Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3
	Lab Fort Blk. Found		15.99	ug/m3	
		Lab Fort Blk. % Rec.	88.71	%	70-130
		t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3
	Lab Fort Blk. Found		20.13	ug/m3	
		Lab Fort Blk. % Rec.	101.56	%	70-130
		Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3
	Lab Fort Blk. Found		17.19	ug/m3	
	Lab Fort Blk. % Rec.	134.54	%	70-130	
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
Lab Fort Blk. Found		21.35	ug/m3		

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 5 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95364	Methylene Chloride	Lab Fort Blk. % Rec.	123.00	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	24.38	ug/m3	
	Chloromethane	Lab Fort Blk. % Rec.	105.90	%	70-130
		Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	13.05	ug/m3	
	Bromomethane	Lab Fort Blk. % Rec.	126.46	%	70-130
		Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	24.28	ug/m3	
	Chloroethane	Lab Fort Blk. % Rec.	125.16	%	70-130
		Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	18.17	ug/m3	
	cis-1,3-Dichloropropene	Lab Fort Blk. % Rec.	137.78	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	23.20	ug/m3	
	trans-1,3-Dichloropropene	Lab Fort Blk. % Rec.	102.22	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.22	ug/m3	
	Chlorodibromomethane	Lab Fort Blk. % Rec.	97.92	%	70-130
		Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	41.24	ug/m3	
	1,1,2-Trichloroethane	Lab Fort Blk. % Rec.	96.81	%	70-130
		Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	31.02	ug/m3	
	Bromoform	Lab Fort Blk. % Rec.	113.72	%	70-130
		Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	52.04	ug/m3	
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	100.68	%	70-130
		Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	42.96	ug/m3	
	Hexachlorobutadiene	Lab Fort Blk. % Rec.	125.14	%	70-130
		Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	50.70	ug/m3	
	1,2,4-Trichlorobenzene	Lab Fort Blk. % Rec.	95.07	%	70-130
		Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	43.92	ug/m3	
	1,2,4-Trimethylbenzene	Lab Fort Blk. % Rec.	118.38	%	70-130
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	28.63	ug/m3	
	1,3,5-Trimethylbenzene	Lab Fort Blk. % Rec.	116.50	%	70-130
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.45	ug/m3	
		Lab Fort Blk. % Rec.	107.62	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 6 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95364	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	18.18	ug/m3	
		Lab Fort Blk. % Rec.	105.66	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.71	ug/m3	
		Lab Fort Blk. % Rec.	99.43	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	25.20	ug/m3	
		Lab Fort Blk. % Rec.	109.08	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	24.60	ug/m3	
		Lab Fort Blk. % Rec.	99.52	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	33.01	ug/m3	
		Lab Fort Blk. % Rec.	127.56	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	16.05	ug/m3	
		Lab Fort Blk. % Rec.	103.10	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	18.35	ug/m3	
		Lab Fort Blk. % Rec.	104.28	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	24.70	ug/m3	
		Lab Fort Blk. % Rec.	120.62	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	33.71	ug/m3	
		Lab Fort Blk. % Rec.	100.62	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	40.13	ug/m3	
		Lab Fort Blk. % Rec.	104.44	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	23.90	ug/m3	
		Lab Fort Blk. % Rec.	116.64	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	42.21	ug/m3	
		Lab Fort Blk. % Rec.	120.78	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.88	ug/m3	
		Lab Fort Blk. % Rec.	107.76	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.09	ug/m3	
		Lab Fort Blk. % Rec.	94.04	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 7 of 9

QC Batch Number: BATCH-16667

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95364	1,3-Butadiene	Lab Fort Blk. Found	14.20	ug/m3	
		Lab Fort Blk. % Rec.	128.44	%	70-130
LFBLANK-95365	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	13.86	ug/m3	
		Lab Fort Blk. % Rec.	116.70	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.56	ug/m3	
		Lab Fort Blk. % Rec.	91.99	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	26.28	ug/m3	
		Lab Fort Blk. % Rec.	97.81	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.18	ug/m3	
		Lab Fort Blk. % Rec.	102.96	%	50-150



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/6/2010

Lims Bat # : LIMIT-25337

Page 8 of 9

NOTES:

QC Batch No. : BATCH-16667
Sample ID : LFBLANK-95364
Analysis : Chloroethane

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : BATCH-16667
Sample ID : LFBLANK-95364
Analysis : Vinyl Chloride

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 1/6/2010 Lims Bat #: LIMIT-25337 Page 9 of 9

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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

AIR SAMPLE CHAIN OF CUSTODY
RECORD LIMIT: 7505

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: Mactec Engineering
 Address: 107 Audubon Rd.
Wakefield, MA 01880
 Attention: Kelly Chatterton

Telephone: (781) 245-6606
 Project # 3650050111
 Client PO # 200904907

Project Location: Barnum Site, Providence RI
 Sampled By: MAM

Proposal Provided? (For Billing purposes)
 Yes 3.3.09 proposal date

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: K.Chatterton@mactec.com
 Format: EXCEL PDF GIS KEY OTHER

Field ID	Sample Description	Media	Lab #	Date		Total	Flow Rate	Volume	Matrix	Analysis Requested	Hg	Please fill out completely, sign, date and retain the yellow copy for your record.
				Start Time	Stop Time							
IA-7-122909	S	101	00000	122909 09:32	122909 10:02	30	0.2	G	SG	X		
IA-6-122909	S	102	00001	122909 09:36	122909 10:06	30	0.2	G	SG	X		
IA-5-122909	S	03	00002	122909 09:40	122909 10:10	30	0.2	G	SG	X		
AA-1-122909	S	04	00003	122909 09:47	122909 10:18	30	0.2	G	SG	X		
EW-7-122909	S	05	00004	122909 10:30	122909 11:00	30	0.2	G	SG	X		
EW-6-122909	S	06	00005	122909 10:34	122909 11:04	30	0.2	G	SG	X		
EW-5-122909	S	07	00006	122909 10:40	122909 11:10	30	0.2	G	SG	X		

CLIENT COMMENTS: EW5-122909, EW-6-122909, and EW-7-122909, were sampled from source area samples

Relinquished by: (signature) [Signature] Date/Time: 12-30-09 12:00

Received by: (signature) [Signature] Date/Time: 12-30-09 12:30

Received by: (signature) [Signature] Date/Time: 12-30-09 6:00 PM

Received by: (signature) [Signature] Date/Time: 12/30/09 18:00

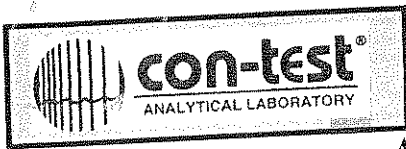
Turnaround **
 7-Day
 10-Day
 Other 5
RUSH * day
 *24-Hr *48-Hr *72-Hr *4-Day

Regulations: CT Target Indoor Air
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 Required Detection Limits: CT Target
 Other: Indoor Air

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

**Media Codes: S=Summa can
 TB=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.



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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Mactec Eng DATE: 12/30/09
RECEIVED BY: KA

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE: _____

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored: Air Lab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	7
Tedlar Bags	
Regulators	7
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:

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

REPORT DATE 1/14/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200904907

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25339
JOB NUMBER: 3650080114

PROJECT LOCATION: Gorham Site, Providence, RI

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
IA-1-010810	10B00011	AIR	Not Specified	to-15 ppbv	
IA-1-010810	10B00011	AIR	Not Specified	to-15 ug/m3	
Post-Carbon-010810	10B00012	AIR	Not Specified	to-15 ppbv	
Post-Carbon-010810	10B00012	AIR	Not Specified	to-15 ug/m3	

**CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY**





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

REPORT DATE 1/14/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200904907

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25339
JOB NUMBER: 3650080114

Comments :

LIMS BATCH NO. : LIMIT-25339

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133041 contained 2-Butanone(MEK) at 0.11 ppbv = 0.34 ug/m3.

In method TO-15, any reported result for 1,2,4-Trichlorobenzene is estimated and likely to be biased on the low side based on continuing calibration bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include 10B00011, 10B00012, and blank-133041.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing AIHA and state certifications: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. #652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).

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.

Handwritten signature of Tod Kopyscinski

Handwritten date 1/14/2010

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/14/2010
 Page 1 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
 Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
 Job Number: 3650080114

Field Sample # : IA-1-010810

Sample ID : 10B00011 ‡Sampled : 1/8/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.3	0.05		01/13/10	WSD
Benzene	PPBv	0.37	0.05		01/13/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/13/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/13/10	WSD
Bromoform	PPBv	ND	0.05		01/13/10	WSD
Bromomethane	PPBv	ND	0.05		01/13/10	WSD
1,3-Butadiene	PPBv	ND	0.10		01/13/10	WSD
2-Butanone (MEK)	PPBv	0.55	0.05		01/13/10	WSD
Carbon Disulfide	PPBv	ND	0.05		01/13/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		01/13/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/13/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/13/10	WSD
Chloroethane	PPBv	ND	0.05		01/13/10	WSD
Chloroform	PPBv	0.05	0.05		01/13/10	WSD
Chloromethane	PPBv	0.52	0.05		01/13/10	WSD
Cyclohexane	PPBv	ND	0.05		01/13/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
Dichlorodifluoromethane	PPBv	0.64	0.05		01/13/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/13/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		01/13/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		01/13/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/13/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/13/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/13/10	WSD
Ethanol	PPBv	4.5	0.05		01/13/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/13/10	WSD
Ethylbenzene	PPBv	0.09	0.05		01/13/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/13/10	WSD
n-Heptane	PPBv	0.08	0.05		01/13/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/14/2010
 Page 2 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
 Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
 Job Number: 3650080114

Field Sample # : IA-1-010810

Sample ID : 10B00011 ‡Sampled : 1/8/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		01/13/10	WSD
Hexane	PPBv	0.21	0.05		01/13/10	WSD
2-Hexanone	PPBv	0.09	0.05		01/13/10	WSD
Isopropanol	PPBv	0.97	0.05		01/13/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/13/10	WSD
Methylene Chloride	PPBv	ND	0.20		01/13/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/13/10	WSD
Propene	PPBv	ND	0.20		01/13/10	WSD
Styrene	PPBv	ND	0.05		01/13/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/13/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		01/13/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		01/13/10	WSD
Toluene	PPBv	0.56	0.05		01/13/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		01/13/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/13/10	WSD
Trichloroethylene	PPBv	ND	0.05		01/13/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.44	0.05		01/13/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.05		01/13/10	WSD
1,2,4-Trimethylbenzene	PPBv	0.08	0.05		01/13/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/13/10	WSD
Vinyl Acetate	PPBv	ND	0.20		01/13/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/13/10	WSD
m/p-Xylene	PPBv	0.26	0.10		01/13/10	WSD
o-Xylene	PPBv	0.10	0.05		01/13/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	12	0.12		01/13/10	WSD
Benzene	ug/m3	1.2	0.16		01/13/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/13/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/13/10	WSD
Bromoform	ug/m3	ND	0.51		01/13/10	WSD
Bromomethane	ug/m3	ND	0.19		01/13/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		01/13/10	WSD
2-Butanone (MEK)	ug/m3	1.6	0.15		01/13/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		01/13/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

Kelly Chatterton

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/14/2010

Page 3 of 9

Project Location: Gorham Site, Providence, RI

LIMS-BAT #: LIMIT-25339

Date Received: 1/8/2010

Job Number: 3650080114

Field Sample # : IA-1-010810

Sample ID : 10B00011

‡Sampled : 1/8/2010

Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.43	0.31		01/13/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/13/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/13/10	WSD
Chloroethane	ug/m3	ND	0.13		01/13/10	WSD
Chloroform	ug/m3	0.26	0.24		01/13/10	WSD
Chloromethane	ug/m3	1.1	0.10		01/13/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/13/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/13/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
Dichlorodifluoromethane	ug/m3	3.1	0.25		01/13/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		01/13/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/13/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		01/13/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		01/13/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		01/13/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/13/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/13/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/13/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/13/10	WSD
Ethanol	ug/m3	8.4	0.09		01/13/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/13/10	WSD
Ethylbenzene	ug/m3	0.40	0.22		01/13/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/13/10	WSD
n-Heptane	ug/m3	0.35	0.20		01/13/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		01/13/10	WSD
Hexane	ug/m3	0.74	0.18		01/13/10	WSD
2-Hexanone	ug/m3	0.36	0.20		01/13/10	WSD
Isopropanol	ug/m3	2.4	0.12		01/13/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/13/10	WSD
Methylene Chloride	ug/m3	ND	0.70		01/13/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/13/10	WSD
Propene	ug/m3	ND	0.35		01/13/10	WSD
Styrene	ug/m3	ND	0.21		01/13/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

Kelly Chatterton

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880

1/14/2010

Page 4 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
Job Number: 3650080114

Field Sample # : IA-1-010810

Sample ID : 10B00011

‡Sampled : 1/8/2010
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/13/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		01/13/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		01/13/10	WSD
Toluene	ug/m3	2.1	0.19		01/13/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		01/13/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		01/13/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/13/10	WSD
Trichloroethylene	ug/m3	ND	0.27		01/13/10	WSD
Trichlorofluoromethane	ug/m3	2.5	0.28		01/13/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.63	0.38		01/13/10	WSD
1,2,4-Trimethylbenzene	ug/m3	0.37	0.25		01/13/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/13/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		01/13/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/13/10	WSD
m/p-Xylene	ug/m3	1.1	0.43		01/13/10	WSD
o-Xylene	ug/m3	0.44	0.22		01/13/10	WSD

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/14/2010
 Page 5 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
 Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
 Job Number: 3650080114

Field Sample # : Post-Carbon-010810

Sample ID : 10B00012 ‡Sampled : 1/8/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	2.4	0.05		01/13/10	WSD
Benzene	PPBv	ND	0.05		01/13/10	WSD
Benzyl Chloride	PPBv	ND	0.05		01/13/10	WSD
Bromodichloromethane	PPBv	ND	0.05		01/13/10	WSD
Bromoform	PPBv	ND	0.05		01/13/10	WSD
Bromomethane	PPBv	ND	0.05		01/13/10	WSD
1,3-Butadiene	PPBv	ND	0.10		01/13/10	WSD
2-Butanone (MEK)	PPBv	0.69	0.05		01/13/10	WSD
Carbon Disulfide	PPBv	0.06	0.05		01/13/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		01/13/10	WSD
Chlorobenzene	PPBv	ND	0.05		01/13/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		01/13/10	WSD
Chloroethane	PPBv	4.0	0.05		01/13/10	WSD
Chloroform	PPBv	1.4	0.05		01/13/10	WSD
Chloromethane	PPBv	ND	0.05		01/13/10	WSD
Cyclohexane	PPBv	ND	0.05		01/13/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
Dichlorodifluoromethane	PPBv	0.39	0.05		01/13/10	WSD
1,1-Dichloroethane	PPBv	150	0.05		01/13/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		01/13/10	WSD
1,1-Dichloroethylene	PPBv	22	0.05		01/13/10	WSD
cis-1,2-Dichloroethylene	PPBv	140	0.05		01/13/10	WSD
t-1,2-Dichloroethylene	PPBv	3.7	0.05		01/13/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		01/13/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		01/13/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		01/13/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		01/13/10	WSD
Ethanol	PPBv	1.5	0.05		01/13/10	WSD
Ethyl Acetate	PPBv	ND	0.05		01/13/10	WSD
Ethylbenzene	PPBv	ND	0.05		01/13/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		01/13/10	WSD
n-Heptane	PPBv	ND	0.05		01/13/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/14/2010
 Page 6 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
 Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
 Job Number: 3650080114

Field Sample # : Post-Carbon-010810

Sample ID : 10B00012 ‡Sampled : 1/8/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		01/13/10	WSD
Hexane	PPBv	0.06	0.05		01/13/10	WSD
2-Hexanone	PPBv	0.08	0.05		01/13/10	WSD
Isopropanol	PPBv	0.57	0.05		01/13/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		01/13/10	WSD
Methylene Chloride	PPBv	0.21	0.05		01/13/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		01/13/10	WSD
Propene	PPBv	ND	0.20		01/13/10	WSD
Styrene	PPBv	ND	0.05		01/13/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		01/13/10	WSD
Tetrachloroethylene	PPBv	0.28	0.05		01/13/10	WSD
Tetrahydrofuran	PPBv	2.2	0.05		01/13/10	WSD
Toluene	PPBv	0.10	0.05		01/13/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		01/13/10	WSD
1,1,1-Trichloroethane	PPBv	82	0.05		01/13/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		01/13/10	WSD
Trichloroethylene	PPBv	0.19	0.05		01/13/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	38	0.05		01/13/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		01/13/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		01/13/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		01/13/10	WSD
Vinyl Acetate	PPBv	ND	0.20		01/13/10	WSD
Vinyl Chloride	PPBv	ND	0.05		01/13/10	WSD
m/p-Xylene	PPBv	ND	0.10		01/13/10	WSD
o-Xylene	PPBv	ND	0.05		01/13/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	5.7	0.12		01/13/10	WSD
Benzene	ug/m3	ND	0.16		01/13/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		01/13/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		01/13/10	WSD
Bromoform	ug/m3	ND	0.51		01/13/10	WSD
Bromomethane	ug/m3	ND	0.19		01/13/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		01/13/10	WSD
2-Butanone (MEK)	ug/m3	2.0	0.15		01/13/10	WSD
Carbon Disulfide	ug/m3	0.20	0.16		01/13/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

1/14/2010
 Page 7 of 9

Purchase Order No.: 200904907

Project Location: Gorham Site, Providence, RI
 Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339
 Job Number: 3650080114

Field Sample # : Post-Carbon-010810

Sample ID : 10B00012 ‡Sampled : 1/8/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		01/13/10	WSD
Chlorobenzene	ug/m3	ND	0.23		01/13/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		01/13/10	WSD
Chloroethane	ug/m3	10	0.13		01/13/10	WSD
Chloroform	ug/m3	6.8	0.24		01/13/10	WSD
Chloromethane	ug/m3	ND	0.10		01/13/10	WSD
Cyclohexane	ug/m3	ND	0.17		01/13/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		01/13/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		01/13/10	WSD
Dichlorodifluoromethane	ug/m3	1.9	0.25		01/13/10	WSD
1,1-Dichloroethane	ug/m3	610	0.20		01/13/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		01/13/10	WSD
1,1-Dichloroethylene	ug/m3	87	0.20		01/13/10	WSD
cis-1,2-Dichloroethylene	ug/m3	570	0.20		01/13/10	WSD
t-1,2-Dichloroethylene	ug/m3	15	0.20		01/13/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		01/13/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		01/13/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		01/13/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		01/13/10	WSD
Ethanol	ug/m3	2.8	0.09		01/13/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		01/13/10	WSD
Ethylbenzene	ug/m3	ND	0.22		01/13/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		01/13/10	WSD
n-Heptane	ug/m3	ND	0.20		01/13/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		01/13/10	WSD
Hexane	ug/m3	0.23	0.18		01/13/10	WSD
2-Hexanone	ug/m3	0.34	0.20		01/13/10	WSD
Isopropanol	ug/m3	1.4	0.12		01/13/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		01/13/10	WSD
Methylene Chloride	ug/m3	0.72	0.17		01/13/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		01/13/10	WSD
Propene	ug/m3	ND	0.35		01/13/10	WSD
Styrene	ug/m3	ND	0.21		01/13/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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

Kelly Chatterton

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107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Purchase Order No.: 200904907

1/14/2010

Page 8 of 9

Project Location: Gorham Site, Providence, RI

Date Received: 1/8/2010

LIMS-BAT #: LIMIT-25339

Job Number: 3650080114

Field Sample # : Post-Carbon-010810

Sample ID : 10B00012

‡Sampled : 1/8/2010

Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		01/13/10	WSD
Tetrachloroethylene	ug/m3	1.9	0.34		01/13/10	WSD
Tetrahydrofuran	ug/m3	6.5	0.15		01/13/10	WSD
Toluene	ug/m3	0.36	0.19		01/13/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		01/13/10	WSD
1,1,1-Trichloroethane	ug/m3	450	0.27		01/13/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		01/13/10	WSD
Trichloroethylene	ug/m3	1.0	0.27		01/13/10	WSD
Trichlorofluoromethane	ug/m3	210	0.28		01/13/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.51	0.38		01/13/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		01/13/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		01/13/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		01/13/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		01/13/10	WSD
m/p-Xylene	ug/m3	ND	0.43		01/13/10	WSD
o-Xylene	ug/m3	ND	0.22		01/13/10	WSD

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‡ See attached chain-of-custody record for time sampled



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Kelly Chatterton

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Project Location: Gorham Site, Providence, RI

Date Received: 1/8/2010

1/14/2010

Page 9 of 9

Purchase Order No.: 200904907

LIMS-BAT #: LIMIT-25339

Job Number: 3650080114

** END OF REPORT **

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 1 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00011					
	Acetone	Sample Amount	12.49	ug/m3	
		Duplicate Value	12.95	ug/m3	
		Duplicate RPD	3.62	%	
	Benzene	Sample Amount	1.16	ug/m3	
		Duplicate Value	1.28	ug/m3	
		Duplicate RPD	9.37	%	
	Carbon Tetrachloride	Sample Amount	0.42	ug/m3	
		Duplicate Value	0.45	ug/m3	
		Duplicate RPD	7.09	%	
	Chloroform	Sample Amount	0.26	ug/m3	
		Duplicate Value	0.25	ug/m3	
		Duplicate RPD	3.77	%	
	Ethylbenzene	Sample Amount	0.39	ug/m3	
		Duplicate Value	0.38	ug/m3	
		Duplicate RPD	4.44	%	
	Hexane	Sample Amount	0.74	ug/m3	
		Duplicate Value	0.75	ug/m3	
		Duplicate RPD	0.94	%	
	Isopropanol	Sample Amount	2.39	ug/m3	
		Duplicate Value	2.50	ug/m3	
		Duplicate RPD	4.81	%	
	2-Butanone (MEK)	Sample Amount	1.62	ug/m3	
		Duplicate Value	1.85	ug/m3	
		Duplicate RPD	13.22	%	
	Toluene	Sample Amount	2.08	ug/m3	
		Duplicate Value	2.15	ug/m3	
		Duplicate RPD	3.36	%	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Sample Amount	0.62	ug/m3	
		Duplicate Value	0.55	ug/m3	
		Duplicate RPD	11.61	%	
	Trichlorofluoromethane	Sample Amount	2.49	ug/m3	
		Duplicate Value	2.35	ug/m3	
		Duplicate RPD	5.55	%	
	o-Xylene	Sample Amount	0.43	ug/m3	
		Duplicate Value	0.45	ug/m3	
		Duplicate RPD	2.92	%	
	m/p-Xylene	Sample Amount	1.13	ug/m3	
		Duplicate Value	1.17	ug/m3	
		Duplicate RPD	3.75	%	
	Ethanol	Sample Amount	8.42	ug/m3	
		Duplicate Value	8.27	ug/m3	
		Duplicate RPD	1.73	%	
	Chloromethane	Sample Amount	1.08	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 2 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits	
10B00011	Chloromethane	Duplicate Value	1.11	ug/m3		
		Duplicate RPD	2.63	%		
	1,2,4-Trimethylbenzene	Sample Amount	0.36	ug/m3		
		Duplicate Value	0.41	ug/m3		
	Dichlorodifluoromethane	Duplicate RPD	11.32	%		
		Sample Amount	3.14	ug/m3		
	2-Hexanone	Duplicate Value	3.08	ug/m3		
		Duplicate RPD	1.74	%		
	4-Bromofluorobenzene	Sample Amount	0.35	ug/m3		
		Duplicate Value	0.43	ug/m3		
	n-Heptane	Duplicate RPD	18.74	%		
		Surrogate Recovery	98.00	%	70-130	
	10B00012	4-Bromofluorobenzene	Sample Amount	0.34	ug/m3	
			Duplicate Value	0.37	ug/m3	
Duplicate RPD			7.90	%		
BLANK-133041	4-Bromofluorobenzene	Surrogate Recovery	99.12	%	70-130	
BLANK-133041	Acetone	Blank	<0.34	ug/m3		
	Benzene	Blank	<0.12	ug/m3		
	Carbon Tetrachloride	Blank	<0.22	ug/m3		
	Chloroform	Blank	<0.17	ug/m3		
	1,2-Dichloroethane	Blank	<0.14	ug/m3		
	1,4-Dichlorobenzene	Blank	<0.21	ug/m3		
	Ethyl Acetate	Blank	<0.13	ug/m3		
	Ethylbenzene	Blank	<0.16	ug/m3		
	Hexane	Blank	<0.13	ug/m3		
	Isopropanol	Blank	<0.18	ug/m3		
	2-Butanone (MEK)	Blank	0.34	ug/m3		
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.14	ug/m3		
	Styrene	Blank	<0.15	ug/m3		
	Tetrachloroethylene	Blank	<0.24	ug/m3		
	Toluene	Blank	<0.14	ug/m3		
	1,1,1-Trichloroethane	Blank	<0.19	ug/m3		
	Trichloroethylene	Blank	<0.19	ug/m3		
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.27	ug/m3		
	Trichlorofluoromethane	Blank	<0.20	ug/m3		
	o-Xylene	Blank	<0.16	ug/m3		
	m/p-Xylene	Blank	<0.31	ug/m3		
	1,2-Dichlorobenzene	Blank	<0.21	ug/m3		
	1,3-Dichlorobenzene	Blank	<0.21	ug/m3		
	1,1-Dichloroethane	Blank	<0.14	ug/m3		
1,1-Dichloroethylene	Blank	<0.14	ug/m3			



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 3 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133041					
	Ethanol	Blank	<0.27	ug/m3	
	4-Ethyl Toluene	Blank	<0.18	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.13	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	Vinyl Chloride	Blank	<0.10	ug/m3	
	Methylene Chloride	Blank	<0.49	ug/m3	
	Chlorobenzene	Blank	<0.17	ug/m3	
	Chloromethane	Blank	<0.07	ug/m3	
	Bromomethane	Blank	<0.14	ug/m3	
	Chloroethane	Blank	<0.10	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	Chlorodibromomethane	Blank	<0.31	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.19	ug/m3	
	Bromoform	Blank	<0.36	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.24	ug/m3	
	Hexachlorobutadiene	Blank	<0.38	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.26	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.18	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.18	ug/m3	
	Cyclohexane	Blank	<0.12	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	1,2-Dichloropropane	Blank	<0.17	ug/m3	
	Dichlorodifluoromethane	Blank	<0.18	ug/m3	
	Benzyl Chloride	Blank	<0.19	ug/m3	
	Carbon Disulfide	Blank	<0.12	ug/m3	
	Vinyl Acetate	Blank	<0.50	ug/m3	
	2-Hexanone	Blank	<0.14	ug/m3	
	Bromodichloromethane	Blank	<0.24	ug/m3	
	1,2-Dibromoethane	Blank	<0.27	ug/m3	
	n-Heptane	Blank	<0.14	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.25	ug/m3	
	Tetrahydrofuran	Blank	<0.11	ug/m3	
	Propene	Blank	<0.25	ug/m3	
	1,3-Butadiene	Blank	<0.16	ug/m3	
LFBLANK-95366					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.95	ug/m3	
		Lab Fort Blk. % Rec.	109.04	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	14.21	ug/m3	
		Lab Fort Blk. % Rec.	89.14	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 4 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95366	Carbon Tetrachloride	Lab Fort Blk. Found	28.30	ug/m3	
		Lab Fort Blk. % Rec.	89.98	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	27.10	ug/m3	
		Lab Fort Blk. % Rec.	111.38	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.58	ug/m3	
		Lab Fort Blk. % Rec.	101.66	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	26.83	ug/m3	
		Lab Fort Blk. % Rec.	89.28	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	19.38	ug/m3	
		Lab Fort Blk. % Rec.	107.62	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	21.33	ug/m3	
		Lab Fort Blk. % Rec.	98.42	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	16.15	ug/m3	
		Lab Fort Blk. % Rec.	91.68	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	12.45	ug/m3	
		Lab Fort Blk. % Rec.	101.38	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.91	ug/m3	
		Lab Fort Blk. % Rec.	87.56	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.53	ug/m3	
		Lab Fort Blk. % Rec.	90.49	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	19.77	ug/m3	
		Lab Fort Blk. % Rec.	92.98	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	29.26	ug/m3	
		Lab Fort Blk. % Rec.	86.29	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.99	ug/m3	
		Lab Fort Blk. % Rec.	95.66	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	25.46	ug/m3	
		Lab Fort Blk. % Rec.	93.34	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	24.45	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 5 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95366					
	Trichloroethylene	Lab Fort Blk. % Rec.	91.02	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	34.16	ug/m3	
		Lab Fort Blk. % Rec.	89.15	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	31.46	ug/m3	
		Lab Fort Blk. % Rec.	112.00	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	21.50	ug/m3	
		Lab Fort Blk. % Rec.	99.04	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	40.88	ug/m3	
		Lab Fort Blk. % Rec.	94.12	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	26.87	ug/m3	
		Lab Fort Blk. % Rec.	89.40	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	25.89	ug/m3	
		Lab Fort Blk. % Rec.	86.14	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.50	ug/m3	
		Lab Fort Blk. % Rec.	101.28	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.14	ug/m3	
		Lab Fort Blk. % Rec.	91.46	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	9.53	ug/m3	
		Lab Fort Blk. % Rec.	101.18	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.55	ug/m3	
		Lab Fort Blk. % Rec.	99.88	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	20.38	ug/m3	
		Lab Fort Blk. % Rec.	113.10	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.60	ug/m3	
		Lab Fort Blk. % Rec.	98.90	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	12.98	ug/m3	
		Lab Fort Blk. % Rec.	101.62	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	17.06	ug/m3	
		Lab Fort Blk. % Rec.	98.28	%	70-130

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 6 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95366	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	20.97	ug/m3	
		Lab Fort Blk. % Rec.	91.07	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.55	ug/m3	
		Lab Fort Blk. % Rec.	92.52	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	20.97	ug/m3	
		Lab Fort Blk. % Rec.	108.08	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	13.82	ug/m3	
		Lab Fort Blk. % Rec.	104.80	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.47	ug/m3	
		Lab Fort Blk. % Rec.	99.01	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.90	ug/m3	
		Lab Fort Blk. % Rec.	100.90	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	43.48	ug/m3	
		Lab Fort Blk. % Rec.	102.08	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.00	ug/m3	
		Lab Fort Blk. % Rec.	95.32	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	52.25	ug/m3	
		Lab Fort Blk. % Rec.	101.08	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	34.29	ug/m3	
		Lab Fort Blk. % Rec.	99.88	%	70-130
Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3		
	Lab Fort Blk. Found	48.04	ug/m3		
	Lab Fort Blk. % Rec.	90.08	%	70-130	
1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3		
	Lab Fort Blk. Found	33.43	ug/m3		
	Lab Fort Blk. % Rec.	90.09	%	70-130	
1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3		
	Lab Fort Blk. Found	23.92	ug/m3		
	Lab Fort Blk. % Rec.	97.34	%	70-130	
1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3		
	Lab Fort Blk. Found	23.33	ug/m3		
	Lab Fort Blk. % Rec.	94.92	%	70-130	
Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3		



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 7 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95366					
	Cyclohexane	Lab Fort Blk. Found	13.47	ug/m3	
		Lab Fort Blk. % Rec.	78.32	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.80	ug/m3	
		Lab Fort Blk. % Rec.	99.87	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	20.40	ug/m3	
		Lab Fort Blk. % Rec.	88.29	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	27.25	ug/m3	
		Lab Fort Blk. % Rec.	110.22	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	30.12	ug/m3	
		Lab Fort Blk. % Rec.	116.38	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.14	ug/m3	
		Lab Fort Blk. % Rec.	90.81	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	17.30	ug/m3	
		Lab Fort Blk. % Rec.	98.32	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.22	ug/m3	
		Lab Fort Blk. % Rec.	88.98	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	34.31	ug/m3	
		Lab Fort Blk. % Rec.	102.42	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	37.14	ug/m3	
		Lab Fort Blk. % Rec.	96.68	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	17.56	ug/m3	
		Lab Fort Blk. % Rec.	85.71	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.73	ug/m3	
		Lab Fort Blk. % Rec.	105.08	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.79	ug/m3	
		Lab Fort Blk. % Rec.	100.36	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	7.63	ug/m3	
		Lab Fort Blk. % Rec.	88.68	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	9.96	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 1/14/2010

Lims Bat # : LIMIT-25339

Page 8 of 9

QC Batch Number: BATCH-16668

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95366	1,3-Butadiene	Lab Fort Blk. % Rec.	90.12	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 1/14/2010 Lims Bat #: LIMIT-25339 Page 9 of 9

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST
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Page 1 of 1

Company Name: Mactec Engineering
 Address: 107 Audubon Rd.
Wakefield, MA 01880
 Attention: Kelly Chatenton
 Project Location: Canham Site, Providence, RI
 Sampled By: MARA

Limit # 25339
 Telephone: (781) 215-6606
 Project # 3650080111
 Client PO # 200901907

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #:
 Email: KS Chatenton@macdec.com
 Format: EXCEL PDF GIS KEY OTHER

Proposal Provided? (For Billing purposes)
 yes 3-3-09 proposal date

Field ID	Sample Description	Media	Lab #	Date Sampled		Total Minutes Sampled	Flow Rate M ³ /Min, or L/Min	Volume Liters or M ³	Matrix Code*	ANALYSIS REQUESTED	"Hg	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. Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.	
				Start Date Time	Stop Date Time								
00011	IA-1-010810	S	01	010810 10:45	010810 11:15	30	0.2	6	SG	X	280-60-6	1231	41065
00012	Post Carbon-010810	S	02	010810 11:20	010810 11:50	30	0.2	6	SG	X	280-60-5	1885	41073
00013	Ew. combined-010810	S	03	010810 11:23	010810 11:53	30	0.2	6	SG	X	280-60-8	1877	4085

Laboratory Comments: Deleted Ew-combined-010810 Ew-combined-010810 and Post Carbon-010810 were per Bill Domick via MS pressure stayed the same @ 28.0 through the 30 minute sample as phase exchange.
 CLIENT COMMENTS:
 Ew-combined-010810 and Post Carbon-010810 were sampled in a 50.1 gas. Both sample will be "Blind", "

Relinquished by: (signature) Mara Magallon Date/Time: 2/10/10 10:37

Received by: (signature) [Signature] Date/Time: 2-10-10 12:37

Relinquished by: (signature) [Signature] Date/Time: 2-10-10 17:46

Received by: (signature) [Signature] Date/Time: 1/31/10 17:45

Turnaround: 7-Day 10-Day Other 5 day
 RUSH * day
 *24-Hr *48-Hr *72-Hr *4-Day
 *Approval Required

Special Requirements: Regulations: CT Target Indoor Air
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N (Surcharge Applies)
 Required Detection Limits: CT Target Indoor Air
 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 TB=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. AIHA, NELAC & WBE/DBE Certified



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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Mactec Eng. DATE: 1/8/10
RECEIVED BY: KO

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE:

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored:

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

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	3
Tedlar Bags	
Regulators	3
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments: _____

MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880
 ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
 PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25342
 JOB NUMBER: 36500 80114

PROJECT LOCATION: PROVIDENCE, RI (GORHAM SITE)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
AA-1-012810	10B00022	AIR	Not Specified	to-15 ppbv	
AA-1-012810	10B00022	AIR	Not Specified	to-15 ug/m3	
EW-COMBINED-01	10B00017	AIR	Not Specified	to-15 ppbv	
EW-COMBINED-01	10B00017	AIR	Not Specified	to-15 ug/m3	
IA-1-012810	10B00018	AIR	Not Specified	to-15 ppbv	
IA-1-012810	10B00018	AIR	Not Specified	to-15 ug/m3	
IA-2-012810	10B00019	AIR	Not Specified	to-15 ppbv	
IA-2-012810	10B00019	AIR	Not Specified	to-15 ug/m3	
IA-3-012810	10B00020	AIR	Not Specified	to-15 ppbv	
IA-3-012810	10B00020	AIR	Not Specified	to-15 ug/m3	
IA-4-012810	10B00021	AIR	Not Specified	to-15 ppbv	
IA-4-012810	10B00021	AIR	Not Specified	to-15 ug/m3	

CHECKED FOR COMPLETENESS
 OF PARAMETERS ORDERED BY:





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

REPORT DATE 2/4/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25342
JOB NUMBER: 36500 80114

Comments :

LIMS BATCH NO. : LIMIT-25342

REVISED REPORT - 2/4/10

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133043 contained 2-Butanone(MEK) at 0.16 ppbv = 0.49 ug/m3.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include samples 10B00017 through 10B00022dup, blank-133042, and blank-133043 with their respective dilutions and detected compounds.

Method blank-133042 is associated with samples 10B00018 - 10B00022, and 20x dilution.
Method blank-133043 is associated with sample 10B00017.

Lfblank-95367 is associated with samples 10B00018 - 10B00022, and 20x dilution.
Lfblank-95368 is associated with sample 10B00017.

In method TO-15, for Benzyl Chloride, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

In method TO-15, data is not affected by laboratory fortified blank recovery outlier for Benzyl Chloride since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing various accreditations: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. # 652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).



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REPORT DATE 2/4/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: KELLY CHATTERTON

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25342

JOB NUMBER: 36500 80114

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.

 
SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample



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 WAKEFIELD, MA 01880

2/4/2010
 Page 1 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample #: AA-1-012810

Sample ID: 10B00022 ‡Sampled: 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	1.5	0.05		02/02/10	WSD
Benzene	PPBv	0.25	0.05		02/02/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/02/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/02/10	WSD
Bromoform	PPBv	ND	0.05		02/02/10	WSD
Bromomethane	PPBv	ND	0.05		02/02/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/02/10	WSD
2-Butanone (MEK)	PPBv	0.28	0.05		02/02/10	WSD
Carbon Disulfide	PPBv	0.09	0.05		02/02/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/02/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/02/10	WSD
Chloroethane	PPBv	ND	0.05		02/02/10	WSD
Chloroform	PPBv	ND	0.05		02/02/10	WSD
Chloromethane	PPBv	0.54	0.05		02/02/10	WSD
Cyclohexane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Dichlorodifluoromethane	PPBv	0.46	0.05		02/02/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/02/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/02/10	WSD
Ethanol	PPBv	2.9	0.05		02/02/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/02/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/02/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/02/10	WSD
n-Heptane	PPBv	0.06	0.05		02/02/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/4/2010
 Page 2 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : AA-1-012810

Sample ID : 10B00022 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/02/10	WSD
Hexane	PPBv	0.10	0.05		02/02/10	WSD
2-Hexanone	PPBv	ND	0.05		02/02/10	WSD
Isopropanol	PPBv	0.23	0.05		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/02/10	WSD
Methylene Chloride	PPBv	0.38	0.05		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/02/10	WSD
Propene	PPBv	ND	0.20		02/02/10	WSD
Styrene	PPBv	ND	0.05		02/02/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/02/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/02/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/02/10	WSD
Toluene	PPBv	0.25	0.05		02/02/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/02/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.22	0.05		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.06	0.05		02/02/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/02/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/02/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/02/10	WSD
o-Xylene	PPBv	ND	0.05		02/02/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	3.5	0.12		02/02/10	WSD
Benzene	ug/m3	0.79	0.16		02/02/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/02/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/02/10	WSD
Bromoform	ug/m3	ND	0.51		02/02/10	WSD
Bromomethane	ug/m3	ND	0.19		02/02/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/02/10	WSD
2-Butanone (MEK)	ug/m3	0.81	0.15		02/02/10	WSD
Carbon Disulfide	ug/m3	0.28	0.16		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

2/4/2010
 Page 3 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : AA-1-012810

Sample ID : 10B00022 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.42	0.31		02/02/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/02/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/02/10	WSD
Chloroethane	ug/m3	ND	0.13		02/02/10	WSD
Chloroform	ug/m3	ND	0.24		02/02/10	WSD
Chloromethane	ug/m3	1.1	0.10		02/02/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/02/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/02/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
Dichlorodifluoromethane	ug/m3	2.3	0.25		02/02/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/02/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/02/10	WSD
Ethanol	ug/m3	5.4	0.09		02/02/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/02/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/02/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/02/10	WSD
n-Heptane	ug/m3	0.26	0.20		02/02/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/02/10	WSD
Hexane	ug/m3	0.36	0.18		02/02/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/02/10	WSD
Isopropanol	ug/m3	0.56	0.12		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/02/10	WSD
Methylene Chloride	ug/m3	1.3	0.17		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/02/10	WSD
Propene	ug/m3	ND	0.35		02/02/10	WSD
Styrene	ug/m3	ND	0.21		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
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 WAKEFIELD, MA 01880

2/4/2010
 Page 4 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : AA-1-012810

Sample ID : 10B00022 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/02/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/02/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/02/10	WSD
Toluene	ug/m3	0.94	0.19		02/02/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/02/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/02/10	WSD
Trichlorofluoromethane	ug/m3	1.2	0.28		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.49	0.38		02/02/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/02/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/02/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/02/10	WSD
o-Xylene	ug/m3	ND	0.22		02/02/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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KELLY CHATTERTON
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 WAKEFIELD, MA 01880

2/4/2010
 Page 5 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : EW-COMBINED-012810

Sample ID : 10B00017 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	13	0.10		02/03/10	WSD
Benzene	PPBv	0.19	0.10		02/03/10	WSD
Benzyl Chloride	PPBv	ND	0.10		02/03/10	WSD
Bromodichloromethane	PPBv	ND	0.10		02/03/10	WSD
Bromoform	PPBv	ND	0.10		02/03/10	WSD
Bromomethane	PPBv	ND	0.10		02/03/10	WSD
1,3-Butadiene	PPBv	ND	0.20		02/03/10	WSD
2-Butanone (MEK)	PPBv	1.4	0.10		02/03/10	WSD
Carbon Disulfide	PPBv	1.4	0.10		02/03/10	WSD
Carbon Tetrachloride	PPBv	ND	0.10		02/03/10	WSD
Chlorobenzene	PPBv	ND	0.10		02/03/10	WSD
Chlorodibromomethane	PPBv	ND	0.10		02/03/10	WSD
Chloroethane	PPBv	3.7	0.10		02/03/10	WSD
Chloroform	PPBv	0.85	0.10		02/03/10	WSD
Chloromethane	PPBv	ND	0.10		02/03/10	WSD
Cyclohexane	PPBv	ND	0.10		02/03/10	WSD
1,2-Dibromoethane	PPBv	ND	0.10		02/03/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.10		02/03/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.10		02/03/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.10		02/03/10	WSD
Dichlorodifluoromethane	PPBv	0.49	0.10		02/03/10	WSD
1,1-Dichloroethane	PPBv	70	0.10		02/03/10	WSD
1,2-Dichloroethane	PPBv	ND	0.10		02/03/10	WSD
1,1-Dichloroethylene	PPBv	13	0.10		02/03/10	WSD
cis-1,2-Dichloroethylene	PPBv	48	0.10		02/03/10	WSD
t-1,2-Dichloroethylene	PPBv	0.86	0.10		02/03/10	WSD
1,2-Dichloropropane	PPBv	ND	0.10		02/03/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.10		02/03/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.10		02/03/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.10		02/03/10	WSD
Ethanol	PPBv	21	0.10		02/03/10	WSD
Ethyl Acetate	PPBv	ND	0.10		02/03/10	WSD
Ethylbenzene	PPBv	ND	0.10		02/03/10	WSD
4-Ethyl Toluene	PPBv	ND	0.10		02/03/10	WSD
n-Heptane	PPBv	ND	0.10		02/03/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/4/2010
 Page 6 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : EW-COMBINED-012810

Sample ID : 10B00017 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.10		02/03/10	WSD
Hexane	PPBv	ND	0.10		02/03/10	WSD
2-Hexanone	PPBv	ND	0.10		02/03/10	WSD
Isopropanol	PPBv	0.95	0.10		02/03/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.10		02/03/10	WSD
Methylene Chloride	PPBv	ND	0.40		02/03/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.10		02/03/10	WSD
Propene	PPBv	ND	0.40		02/03/10	WSD
Styrene	PPBv	ND	0.10		02/03/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.10		02/03/10	WSD
Tetrachloroethylene	PPBv	0.68	0.10		02/03/10	WSD
Tetrahydrofuran	PPBv	5.2	0.10		02/03/10	WSD
Toluene	PPBv	ND	0.10		02/03/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		02/03/10	WSD
1,1,1-Trichloroethane	PPBv	280	0.10		02/03/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.10		02/03/10	WSD
Trichloroethylene	PPBv	73	0.10		02/03/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	47	0.10		02/03/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.10		02/03/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.10		02/03/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.10		02/03/10	WSD
Vinyl Acetate	PPBv	ND	0.40		02/03/10	WSD
Vinyl Chloride	PPBv	ND	0.10		02/03/10	WSD
m/p-Xylene	PPBv	ND	0.20		02/03/10	WSD
o-Xylene	PPBv	ND	0.10		02/03/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	31	0.24		02/03/10	WSD
Benzene	ug/m3	0.61	0.32		02/03/10	WSD
Benzyl Chloride	ug/m3	ND	0.52		02/03/10	WSD
Bromodichloromethane	ug/m3	ND	0.66		02/03/10	WSD
Bromoform	ug/m3	ND	1.1		02/03/10	WSD
Bromomethane	ug/m3	ND	0.38		02/03/10	WSD
1,3-Butadiene	ug/m3	ND	0.45		02/03/10	WSD
2-Butanone (MEK)	ug/m3	4.0	0.30		02/03/10	WSD
Carbon Disulfide	ug/m3	4.3	0.32		02/03/10	WSD

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 7 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : EW-COMBINED-012810

Sample ID : 10B00017 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.62		02/03/10	WSD
Chlorobenzene	ug/m3	ND	0.46		02/03/10	WSD
Chlorodibromomethane	ug/m3	ND	0.86		02/03/10	WSD
Chloroethane	ug/m3	9.8	0.26		02/03/10	WSD
Chloroform	ug/m3	4.1	0.48		02/03/10	WSD
Chloromethane	ug/m3	ND	0.20		02/03/10	WSD
Cyclohexane	ug/m3	ND	0.34		02/03/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.76		02/03/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.60		02/03/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.60		02/03/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.60		02/03/10	WSD
Dichlorodifluoromethane	ug/m3	2.4	0.50		02/03/10	WSD
1,1-Dichloroethane	ug/m3	280	0.40		02/03/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.40		02/03/10	WSD
1,1-Dichloroethylene	ug/m3	52	0.40		02/03/10	WSD
cis-1,2-Dichloroethylene	ug/m3	190	0.40		02/03/10	WSD
t-1,2-Dichloroethylene	ug/m3	3.4	0.40		02/03/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.46		02/03/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.44		02/03/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.44		02/03/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.70		02/03/10	WSD
Ethanol	ug/m3	39	0.18		02/03/10	WSD
Ethyl Acetate	ug/m3	ND	0.36		02/03/10	WSD
Ethylbenzene	ug/m3	ND	0.44		02/03/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.50		02/03/10	WSD
n-Heptane	ug/m3	ND	0.40		02/03/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		02/03/10	WSD
Hexane	ug/m3	ND	0.36		02/03/10	WSD
2-Hexanone	ug/m3	ND	0.40		02/03/10	WSD
Isopropanol	ug/m3	2.3	0.24		02/03/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.36		02/03/10	WSD
Methylene Chloride	ug/m3	ND	1.4		02/03/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.40		02/03/10	WSD
Propene	ug/m3	ND	0.69		02/03/10	WSD
Styrene	ug/m3	ND	0.42		02/03/10	WSD

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‡ See attached chain-of-custody record for time sampled

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 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 8 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : EW-COMBINED-012810

Sample ID : 10B00017 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.68		02/03/10	WSD
Tetrachloroethylene	ug/m3	4.6	0.68		02/03/10	WSD
Tetrahydrofuran	ug/m3	15	0.30		02/03/10	WSD
Toluene	ug/m3	ND	0.38		02/03/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.74		02/03/10	WSD
1,1,1-Trichloroethane	ug/m3	1500	0.54		02/03/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.54		02/03/10	WSD
Trichloroethylene	ug/m3	390	0.54		02/03/10	WSD
Trichlorofluoromethane	ug/m3	260	0.56		02/03/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.76		02/03/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.50		02/03/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.50		02/03/10	WSD
Vinyl Acetate	ug/m3	ND	1.5		02/03/10	WSD
Vinyl Chloride	ug/m3	ND	0.26		02/03/10	WSD
m/p-Xylene	ug/m3	ND	0.86		02/03/10	WSD
o-Xylene	ug/m3	ND	0.44		02/03/10	WSD

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

2/4/2010
 Page 9 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-1-012810

Sample ID : 10B00018 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	0.85	0.05		02/02/10	WSD
Benzene	PPBv	ND	0.05		02/02/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/02/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/02/10	WSD
Bromoform	PPBv	ND	0.05		02/02/10	WSD
Bromomethane	PPBv	ND	0.05		02/02/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/02/10	WSD
2-Butanone (MEK)	PPBv	ND	0.10		02/02/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/02/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/02/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/02/10	WSD
Chloroethane	PPBv	ND	0.05		02/02/10	WSD
Chloroform	PPBv	ND	0.05		02/02/10	WSD
Chloromethane	PPBv	0.66	0.05		02/02/10	WSD
Cyclohexane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Dichlorodifluoromethane	PPBv	0.49	0.05		02/02/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/02/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/02/10	WSD
Ethanol	PPBv	3.7	0.05		02/02/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/02/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/02/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/02/10	WSD
n-Heptane	PPBv	ND	0.05		02/02/10	WSD

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 WAKEFIELD, MA 01880

2/4/2010
 Page 10 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-1-012810

Sample ID : 10B00018 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/02/10	WSD
Hexane	PPBv	ND	0.05		02/02/10	WSD
2-Hexanone	PPBv	ND	0.05		02/02/10	WSD
Isopropanol	PPBv	ND	0.10		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/02/10	WSD
Methylene Chloride	PPBv	0.42	0.05		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/02/10	WSD
Propene	PPBv	ND	0.20		02/02/10	WSD
Styrene	PPBv	ND	0.05		02/02/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/02/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/02/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/02/10	WSD
Toluene	PPBv	ND	0.05		02/02/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/02/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.14	0.05		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.05		02/02/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/02/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/02/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/02/10	WSD
o-Xylene	PPBv	ND	0.05		02/02/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	2.0	0.12		02/02/10	WSD
Benzene	ug/m3	ND	0.16		02/02/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/02/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/02/10	WSD
Bromoform	ug/m3	ND	0.51		02/02/10	WSD
Bromomethane	ug/m3	ND	0.19		02/02/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/02/10	WSD
2-Butanone (MEK)	ug/m3	ND	0.30		02/02/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/02/10	WSD

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 WAKEFIELD, MA 01880

2/4/2010
 Page 11 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-1-012810

Sample ID : 10B00018 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/02/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/02/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/02/10	WSD
Chloroethane	ug/m3	ND	0.13		02/02/10	WSD
Chloroform	ug/m3	ND	0.24		02/02/10	WSD
Chloromethane	ug/m3	1.4	0.10		02/02/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/02/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/02/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
Dichlorodifluoromethane	ug/m3	2.4	0.25		02/02/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/02/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/02/10	WSD
Ethanol	ug/m3	7.0	0.09		02/02/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/02/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/02/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/02/10	WSD
n-Heptane	ug/m3	ND	0.20		02/02/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/02/10	WSD
Hexane	ug/m3	ND	0.18		02/02/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/02/10	WSD
Isopropanol	ug/m3	ND	0.25		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/02/10	WSD
Methylene Chloride	ug/m3	1.4	0.17		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/02/10	WSD
Propene	ug/m3	ND	0.35		02/02/10	WSD
Styrene	ug/m3	ND	0.21		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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WAKEFIELD, MA 01880

2/4/2010
Page 12 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
Job Number: 36500 80114

Field Sample #: IA-1-012810

Sample ID: 10B00018 ‡Sampled: 1/28/2010
Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/02/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/02/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/02/10	WSD
Toluene	ug/m3	ND	0.19		02/02/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/02/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/02/10	WSD
Trichlorofluoromethane	ug/m3	0.81	0.28		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.38		02/02/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/02/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/02/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/02/10	WSD
o-Xylene	ug/m3	ND	0.22		02/02/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/4/2010
 Page 13 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-2-012810

Sample ID : 10B00019 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	7.3	0.05		02/02/10	WSD
Benzene	PPBv	0.37	0.05		02/02/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/02/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/02/10	WSD
Bromoform	PPBv	ND	0.05		02/02/10	WSD
Bromomethane	PPBv	ND	0.05		02/02/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/02/10	WSD
2-Butanone (MEK)	PPBv	0.71	0.05		02/02/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/02/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/02/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/02/10	WSD
Chloroethane	PPBv	ND	0.05		02/02/10	WSD
Chloroform	PPBv	ND	0.05		02/02/10	WSD
Chloromethane	PPBv	0.58	0.05		02/02/10	WSD
Cyclohexane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,4-Dichlorobenzene	PPBv	0.06	0.05		02/02/10	WSD
Dichlorodifluoromethane	PPBv	0.44	0.05		02/02/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.15	0.05		02/02/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/02/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/02/10	WSD
Ethanol	PPBv	7.3	0.05		02/02/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/02/10	WSD
Ethylbenzene	PPBv	0.10	0.05		02/02/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/02/10	WSD
n-Heptane	PPBv	0.20	0.05		02/02/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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 MACTEC ENGINEERING & CONSULTING - MA
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 WAKEFIELD, MA 01880

2/4/2010
 Page 14 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-2-012810

Sample ID : 10B00019 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/02/10	WSD
Hexane	PPBv	0.17	0.05		02/02/10	WSD
2-Hexanone	PPBv	0.12	0.05		02/02/10	WSD
Isopropanol	PPBv	ND	0.10		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/02/10	WSD
Methylene Chloride	PPBv	0.40	0.05		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/02/10	WSD
Propene	PPBv	ND	0.20		02/02/10	WSD
Styrene	PPBv	0.10	0.05		02/02/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/02/10	WSD
Tetrachloroethylene	PPBv	0.34	0.05		02/02/10	WSD
Tetrahydrofuran	PPBv	0.56	0.05		02/02/10	WSD
Toluene	PPBv	0.65	0.05		02/02/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,1,1-Trichloroethane	PPBv	0.08	0.05		02/02/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
Trichloroethylene	PPBv	0.15	0.05		02/02/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.21	0.05		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.06	0.05		02/02/10	WSD
1,2,4-Trimethylbenzene	PPBv	0.11	0.05		02/02/10	WSD
1,3,5-Trimethylbenzene	PPBv	0.12	0.05		02/02/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/02/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/02/10	WSD
m/p-Xylene	PPBv	0.29	0.10		02/02/10	WSD
o-Xylene	PPBv	0.10	0.05		02/02/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	17	0.12		02/02/10	WSD
Benzene	ug/m3	1.2	0.16		02/02/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/02/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/02/10	WSD
Bromoform	ug/m3	ND	0.51		02/02/10	WSD
Bromomethane	ug/m3	ND	0.19		02/02/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/02/10	WSD
2-Butanone (MEK)	ug/m3	2.1	0.15		02/02/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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KELLY CHATTERTON
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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/4/2010
 Page 15 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-2-012810

Sample ID : 10B00019 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/02/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/02/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/02/10	WSD
Chloroethane	ug/m3	ND	0.13		02/02/10	WSD
Chloroform	ug/m3	ND	0.24		02/02/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/02/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/02/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/02/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,4-Dichlorobenzene	ug/m3	0.34	0.30		02/02/10	WSD
Dichlorodifluoromethane	ug/m3	2.2	0.25		02/02/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.58	0.20		02/02/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/02/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/02/10	WSD
Ethanol	ug/m3	14	0.09		02/02/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/02/10	WSD
Ethylbenzene	ug/m3	0.42	0.22		02/02/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/02/10	WSD
n-Heptane	ug/m3	0.83	0.20		02/02/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/02/10	WSD
Hexane	ug/m3	0.61	0.18		02/02/10	WSD
2-Hexanone	ug/m3	0.51	0.20		02/02/10	WSD
Isopropanol	ug/m3	ND	0.25		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/02/10	WSD
Methylene Chloride	ug/m3	1.4	0.17		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/02/10	WSD
Propene	ug/m3	ND	0.35		02/02/10	WSD
Styrene	ug/m3	0.41	0.21		02/02/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 16 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-2-012810

Sample ID : 10B00019 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/02/10	WSD
Tetrachloroethylene	ug/m3	2.3	0.34		02/02/10	WSD
Tetrahydrofuran	ug/m3	1.6	0.15		02/02/10	WSD
Toluene	ug/m3	2.4	0.19		02/02/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/02/10	WSD
1,1,1-Trichloroethane	ug/m3	0.44	0.27		02/02/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
Trichloroethylene	ug/m3	0.79	0.27		02/02/10	WSD
Trichlorofluoromethane	ug/m3	1.2	0.28		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.46	0.38		02/02/10	WSD
1,2,4-Trimethylbenzene	ug/m3	0.55	0.25		02/02/10	WSD
1,3,5-Trimethylbenzene	ug/m3	0.59	0.25		02/02/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/02/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/02/10	WSD
m/p-Xylene	ug/m3	1.3	0.43		02/02/10	WSD
o-Xylene	ug/m3	0.46	0.22		02/02/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 17 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-3-012810

Sample ID : 10B00020 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.8	0.05		02/02/10	WSD
Benzene	PPBv	0.39	0.05		02/02/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/02/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/02/10	WSD
Bromoform	PPBv	ND	0.05		02/02/10	WSD
Bromomethane	PPBv	ND	0.05		02/02/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/02/10	WSD
2-Butanone (MEK)	PPBv	0.63	0.05		02/02/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/02/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/02/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/02/10	WSD
Chloroethane	PPBv	ND	0.05		02/02/10	WSD
Chloroform	PPBv	ND	0.05		02/02/10	WSD
Chloromethane	PPBv	0.60	0.05		02/02/10	WSD
Cyclohexane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Dichlorodifluoromethane	PPBv	0.47	0.05		02/02/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.15	0.05		02/02/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/02/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/02/10	WSD
Ethanol	PPBv	7.1	0.05		02/02/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/02/10	WSD
Ethylbenzene	PPBv	0.10	0.05		02/02/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/02/10	WSD
n-Heptane	PPBv	0.18	0.05		02/02/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON
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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/4/2010
 Page 18 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-3-012810

Sample ID : 10B00020 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/02/10	WSD
Hexane	PPBv	0.16	0.05		02/02/10	WSD
2-Hexanone	PPBv	0.13	0.05		02/02/10	WSD
Isopropanol	PPBv	ND	0.10		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/02/10	WSD
Methylene Chloride	PPBv	0.39	0.05		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/02/10	WSD
Propene	PPBv	ND	0.20		02/02/10	WSD
Styrene	PPBv	0.09	0.05		02/02/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/02/10	WSD
Tetrachloroethylene	PPBv	0.33	0.05		02/02/10	WSD
Tetrahydrofuran	PPBv	0.13	0.05		02/02/10	WSD
Toluene	PPBv	0.68	0.05		02/02/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,1,1-Trichloroethane	PPBv	0.08	0.05		02/02/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
Trichloroethylene	PPBv	0.14	0.05		02/02/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.21	0.05		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.06	0.05		02/02/10	WSD
1,2,4-Trimethylbenzene	PPBv	0.09	0.05		02/02/10	WSD
1,3,5-Trimethylbenzene	PPBv	0.09	0.05		02/02/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/02/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/02/10	WSD
m/p-Xylene	PPBv	0.28	0.10		02/02/10	WSD
o-Xylene	PPBv	0.10	0.05		02/02/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	14	0.12		02/02/10	WSD
Benzene	ug/m3	1.3	0.16		02/02/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/02/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/02/10	WSD
Bromoform	ug/m3	ND	0.51		02/02/10	WSD
Bromomethane	ug/m3	ND	0.19		02/02/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/02/10	WSD
2-Butanone (MEK)	ug/m3	1.9	0.15		02/02/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

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 WAKEFIELD, MA 01880

2/4/2010
 Page 19 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-3-012810

Sample ID : 10B00020 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/02/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/02/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/02/10	WSD
Chloroethane	ug/m3	ND	0.13		02/02/10	WSD
Chloroform	ug/m3	ND	0.24		02/02/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/02/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/02/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/02/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
Dichlorodifluoromethane	ug/m3	2.3	0.25		02/02/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.59	0.20		02/02/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/02/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/02/10	WSD
Ethanol	ug/m3	13	0.09		02/02/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/02/10	WSD
Ethylbenzene	ug/m3	0.43	0.22		02/02/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/02/10	WSD
n-Heptane	ug/m3	0.73	0.20		02/02/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/02/10	WSD
Hexane	ug/m3	0.55	0.18		02/02/10	WSD
2-Hexanone	ug/m3	0.52	0.20		02/02/10	WSD
Isopropanol	ug/m3	ND	0.25		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/02/10	WSD
Methylene Chloride	ug/m3	1.4	0.17		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/02/10	WSD
Propene	ug/m3	ND	0.35		02/02/10	WSD
Styrene	ug/m3	0.40	0.21		02/02/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

KELLY CHATTERTON
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 20 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-3-012810

Sample ID : 10B00020 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/02/10	WSD
Tetrachloroethylene	ug/m3	2.2	0.34		02/02/10	WSD
Tetrahydrofuran	ug/m3	0.40	0.15		02/02/10	WSD
Toluene	ug/m3	2.5	0.19		02/02/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/02/10	WSD
1,1,1-Trichloroethane	ug/m3	0.45	0.27		02/02/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
Trichloroethylene	ug/m3	0.75	0.27		02/02/10	WSD
Trichlorofluoromethane	ug/m3	1.2	0.28		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.49	0.38		02/02/10	WSD
1,2,4-Trimethylbenzene	ug/m3	0.44	0.25		02/02/10	WSD
1,3,5-Trimethylbenzene	ug/m3	0.42	0.25		02/02/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/02/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/02/10	WSD
m/p-Xylene	ug/m3	1.2	0.43		02/02/10	WSD
o-Xylene	ug/m3	0.44	0.22		02/02/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010
 Page 21 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-4-012810

Sample ID : 10B00021 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	0.99	0.05		02/02/10	WSD
Benzene	PPBv	ND	0.05		02/02/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/02/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/02/10	WSD
Bromoform	PPBv	ND	0.05		02/02/10	WSD
Bromomethane	PPBv	ND	0.05		02/02/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/02/10	WSD
2-Butanone (MEK)	PPBv	ND	0.10		02/02/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/02/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/02/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/02/10	WSD
Chloroethane	PPBv	ND	0.05		02/02/10	WSD
Chloroform	PPBv	ND	0.05		02/02/10	WSD
Chloromethane	PPBv	0.61	0.05		02/02/10	WSD
Cyclohexane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
Dichlorodifluoromethane	PPBv	0.48	0.05		02/02/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/02/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/02/10	WSD
Ethanol	PPBv	4.1	0.05		02/02/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/02/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/02/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/02/10	WSD
n-Heptane	PPBv	ND	0.05		02/02/10	WSD

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/4/2010
 Page 22 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-4-012810

Sample ID : 10B00021 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/02/10	WSD
Hexane	PPBv	ND	0.05		02/02/10	WSD
2-Hexanone	PPBv	ND	0.05		02/02/10	WSD
Isopropanol	PPBv	0.39	0.05		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/02/10	WSD
Methylene Chloride	PPBv	0.45	0.05		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/02/10	WSD
Propene	PPBv	ND	0.20		02/02/10	WSD
Styrene	PPBv	ND	0.05		02/02/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/02/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/02/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/02/10	WSD
Toluene	PPBv	ND	0.05		02/02/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/02/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/02/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/02/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.16	0.05		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.05		02/02/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/02/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/02/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/02/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/02/10	WSD
o-Xylene	PPBv	ND	0.05		02/02/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	2.3	0.12		02/02/10	WSD
Benzene	ug/m3	ND	0.16		02/02/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/02/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/02/10	WSD
Bromoform	ug/m3	ND	0.51		02/02/10	WSD
Bromomethane	ug/m3	ND	0.19		02/02/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/02/10	WSD
2-Butanone (MEK)	ug/m3	ND	0.30		02/02/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

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WAKEFIELD, MA 01880

2/4/2010
Page 23 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
Job Number: 36500 80114

Field Sample # : IA-4-012810

Sample ID : 10B00021 ‡Sampled : 1/28/2010
Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/02/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/02/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/02/10	WSD
Chloroethane	ug/m3	ND	0.13		02/02/10	WSD
Chloroform	ug/m3	ND	0.24		02/02/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/02/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/02/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/02/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/02/10	WSD
Dichlorodifluoromethane	ug/m3	2.4	0.25		02/02/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/02/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/02/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/02/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/02/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/02/10	WSD
Ethanol	ug/m3	7.7	0.09		02/02/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/02/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/02/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/02/10	WSD
n-Heptane	ug/m3	ND	0.20		02/02/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/02/10	WSD
Hexane	ug/m3	ND	0.18		02/02/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/02/10	WSD
Isopropanol	ug/m3	0.96	0.12		02/02/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/02/10	WSD
Methylene Chloride	ug/m3	1.5	0.17		02/02/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/02/10	WSD
Propene	ug/m3	ND	0.35		02/02/10	WSD
Styrene	ug/m3	ND	0.21		02/02/10	WSD

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

2/4/2010
 Page 24 of 25

Purchase Order No.: 200914545

Project Location: PROVIDENCE, RI (GORHAM SITE)
 Date Received: 1/28/2010

LIMS-BAT #: LIMIT-25342
 Job Number: 36500 80114

Field Sample # : IA-4-012810

Sample ID : 10B00021 ‡Sampled : 1/28/2010
 Not Specified

Sample Matrix: AIR

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/02/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/02/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/02/10	WSD
Toluene	ug/m3	ND	0.19		02/02/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/02/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/02/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/02/10	WSD
Trichlorofluoromethane	ug/m3	0.93	0.28		02/02/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.38		02/02/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/02/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/02/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/02/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/02/10	WSD
o-Xylene	ug/m3	ND	0.22		02/02/10	WSD

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

KELLY CHATTERTON

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/4/2010

Page 25 of 25

Project Location: PROVIDENCE, RI (GORHAM SITE)

LIMS-BAT #: LIMIT-25342

Date Received: 1/28/2010

Job Number: 36500 80114

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 1 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00017	4-Bromofluorobenzene	Surrogate Recovery	104.37	%	70-130
10B00018	4-Bromofluorobenzene	Surrogate Recovery	99.37	%	70-130
10B00019	4-Bromofluorobenzene	Surrogate Recovery	96.87	%	70-130
10B00020	4-Bromofluorobenzene	Surrogate Recovery	97.75	%	70-130
10B00021	4-Bromofluorobenzene	Surrogate Recovery	96.50	%	70-130
10B00022	Acetone	Sample Amount	3.49	ug/m3	
		Duplicate Value	3.85	ug/m3	
		Duplicate RPD	9.63	%	
	Benzene	Sample Amount	0.78	ug/m3	
		Duplicate Value	0.74	ug/m3	
		Duplicate RPD	4.97	%	
	Carbon Tetrachloride	Sample Amount	0.41	ug/m3	
		Duplicate Value	0.39	ug/m3	
		Duplicate RPD	4.65	%	
	Hexane	Sample Amount	0.35	ug/m3	
		Duplicate Value	0.42	ug/m3	
		Duplicate RPD	18.83	%	
	Isopropanol	Sample Amount	0.56	ug/m3	
		Duplicate Value	0.58	ug/m3	
		Duplicate RPD	3.85	%	
	2-Butanone (MEK)	Sample Amount	0.81	ug/m3	
		Duplicate Value	0.83	ug/m3	
		Duplicate RPD	2.15	%	
	Toluene	Sample Amount	0.94	ug/m3	
		Duplicate Value	0.93	ug/m3	
		Duplicate RPD	1.20	%	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Sample Amount	0.49	ug/m3	
		Duplicate Value	0.43	ug/m3	
		Duplicate RPD	11.57	%	
	Trichlorofluoromethane	Sample Amount	1.22	ug/m3	
		Duplicate Value	1.15	ug/m3	
		Duplicate RPD	6.14	%	
	Ethanol	Sample Amount	5.41	ug/m3	
		Duplicate Value	5.69	ug/m3	
		Duplicate RPD	5.08	%	
	Methylene Chloride	Sample Amount	1.32	ug/m3	
		Duplicate Value	1.44	ug/m3	
		Duplicate RPD	8.76	%	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 2 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00022	Chloromethane	Sample Amount	1.11	ug/m3	
		Duplicate Value	1.18	ug/m3	
		Duplicate RPD	5.73	%	
	Dichlorodifluoromethane	Sample Amount	2.25	ug/m3	
		Duplicate Value	2.33	ug/m3	
		Duplicate RPD	3.87	%	
	Carbon Disulfide	Sample Amount	0.28	ug/m3	
		Duplicate Value	0.28	ug/m3	
		Duplicate RPD	3.27	%	
	4-Bromofluorobenzene	Surrogate Recovery	99.50	%	70-130
	n-Heptane	Sample Amount	0.25	ug/m3	
		Duplicate Value	0.22	ug/m3	
		Duplicate RPD	13.55	%	
BLANK-133042	Acetone	Blank	<0.48	ug/m3	
	Benzene	Blank	<0.16	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.24	ug/m3	
	1,2-Dichloroethane	Blank	<0.20	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.30	ug/m3	
	Ethyl Acetate	Blank	<0.18	ug/m3	
	Ethylbenzene	Blank	<0.22	ug/m3	
	Hexane	Blank	<0.18	ug/m3	
	Isopropanol	Blank	<0.25	ug/m3	
	2-Butanone (MEK)	Blank	<0.30	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.20	ug/m3	
	Styrene	Blank	<0.21	ug/m3	
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.19	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.38	ug/m3	
	Trichlorofluoromethane	Blank	<0.28	ug/m3	
	o-Xylene	Blank	<0.22	ug/m3	
	m/p-Xylene	Blank	<0.43	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.30	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.30	ug/m3	
	1,1-Dichloroethane	Blank	<0.20	ug/m3	
	1,1-Dichloroethylene	Blank	<0.20	ug/m3	
	Ethanol	Blank	<0.38	ug/m3	
	4-Ethyl Toluene	Blank	<0.25	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.18	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.20	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 3 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133042					
	Vinyl Chloride	Blank	<0.13	ug/m3	
	Methylene Chloride	Blank	<0.70	ug/m3	
	Chlorobenzene	Blank	<0.23	ug/m3	
	Chloromethane	Blank	<0.10	ug/m3	
	Bromomethane	Blank	<0.19	ug/m3	
	Chloroethane	Blank	<0.13	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.22	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.22	ug/m3	
	Chlorodibromomethane	Blank	<0.43	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.27	ug/m3	
	Bromoform	Blank	<0.51	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.34	ug/m3	
	Hexachlorobutadiene	Blank	<0.53	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.37	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.25	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.25	ug/m3	
	Cyclohexane	Blank	<0.17	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.20	ug/m3	
	1,2-Dichloropropane	Blank	<0.23	ug/m3	
	Dichlorodifluoromethane	Blank	<0.25	ug/m3	
	Benzyl Chloride	Blank	<0.26	ug/m3	
	Carbon Disulfide	Blank	<0.16	ug/m3	
	Vinyl Acetate	Blank	<0.71	ug/m3	
	2-Hexanone	Blank	<0.20	ug/m3	
	Bromodichloromethane	Blank	<0.33	ug/m3	
	1,2-Dibromoethane	Blank	<0.38	ug/m3	
	n-Heptane	Blank	<0.20	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.35	ug/m3	
	Tetrahydrofuran	Blank	<0.15	ug/m3	
	Propene	Blank	<0.35	ug/m3	
	1,3-Butadiene	Blank	<0.23	ug/m3	
BLANK-133043					
	Acetone	Blank	<0.48	ug/m3	
	Benzene	Blank	<0.16	ug/m3	
	Carbon Tetrachloride	Blank	<0.31	ug/m3	
	Chloroform	Blank	<0.24	ug/m3	
	1,2-Dichloroethane	Blank	<0.20	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.30	ug/m3	
	Ethyl Acetate	Blank	<0.18	ug/m3	
	Ethylbenzene	Blank	<0.22	ug/m3	
	Hexane	Blank	<0.18	ug/m3	
	Isopropanol	Blank	<0.25	ug/m3	
	2-Butanone (MEK)	Blank	0.49	ug/m3	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 4 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133043	4-Methyl-2-Pentanone (MIBK)	Blank	<0.20	ug/m3	
	Styrene	Blank	<0.21	ug/m3	
	Tetrachloroethylene	Blank	<0.34	ug/m3	
	Toluene	Blank	<0.19	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.27	ug/m3	
	Trichloroethylene	Blank	<0.27	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.38	ug/m3	
	Trichlorofluoromethane	Blank	<0.28	ug/m3	
	o-Xylene	Blank	<0.22	ug/m3	
	m/p-Xylene	Blank	<0.43	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.30	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.30	ug/m3	
	1,1-Dichloroethane	Blank	<0.20	ug/m3	
	1,1-Dichloroethylene	Blank	<0.20	ug/m3	
	Ethanol	Blank	<0.38	ug/m3	
	4-Ethyl Toluene	Blank	<0.25	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.18	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.20	ug/m3	
	Vinyl Chloride	Blank	<0.13	ug/m3	
	Methylene Chloride	Blank	<0.70	ug/m3	
	Chlorobenzene	Blank	<0.23	ug/m3	
	Chloromethane	Blank	<0.10	ug/m3	
	Bromomethane	Blank	<0.19	ug/m3	
	Chloroethane	Blank	<0.13	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.22	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.22	ug/m3	
	Chlorodibromomethane	Blank	<0.43	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.27	ug/m3	
	Bromoform	Blank	<0.51	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.34	ug/m3	
	Hexachlorobutadiene	Blank	<0.53	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.37	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.25	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.25	ug/m3	
	Cyclohexane	Blank	<0.17	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.20	ug/m3	
	1,2-Dichloropropane	Blank	<0.23	ug/m3	
	Dichlorodifluoromethane	Blank	<0.25	ug/m3	
	Benzyl Chloride	Blank	<0.26	ug/m3	
	Carbon Disulfide	Blank	<0.16	ug/m3	
	Vinyl Acetate	Blank	<0.71	ug/m3	
	2-Hexanone	Blank	<0.20	ug/m3	
	Bromodichloromethane	Blank	<0.33	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 5 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133043					
	1,2-Dibromoethane	Blank	<0.38	ug/m3	
	n-Heptane	Blank	<0.20	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.35	ug/m3	
	Tetrahydrofuran	Blank	<0.15	ug/m3	
	Propene	Blank	<0.35	ug/m3	
	1,3-Butadiene	Blank	<0.23	ug/m3	
LFBLANK-95367					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	11.25	ug/m3	
		Lab Fort Blk. % Rec.	94.80	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.85	ug/m3	
		Lab Fort Blk. % Rec.	99.42	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	27.23	ug/m3	
		Lab Fort Blk. % Rec.	86.58	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	23.76	ug/m3	
		Lab Fort Blk. % Rec.	97.66	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	17.52	ug/m3	
		Lab Fort Blk. % Rec.	86.56	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.68	ug/m3	
		Lab Fort Blk. % Rec.	92.08	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.27	ug/m3	
		Lab Fort Blk. % Rec.	112.54	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.58	ug/m3	
		Lab Fort Blk. % Rec.	104.20	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	15.95	ug/m3	
		Lab Fort Blk. % Rec.	90.54	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	13.48	ug/m3	
		Lab Fort Blk. % Rec.	109.72	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.62	ug/m3	
		Lab Fort Blk. % Rec.	85.62	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	22.63	ug/m3	
		Lab Fort Blk. % Rec.	110.52	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 6 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95367					
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	22.29	ug/m3	
		Lab Fort Blk. % Rec.	104.84	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	27.33	ug/m3	
		Lab Fort Blk. % Rec.	80.62	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	19.19	ug/m3	
		Lab Fort Blk. % Rec.	102.02	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.52	ug/m3	
		Lab Fort Blk. % Rec.	89.89	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	25.31	ug/m3	
		Lab Fort Blk. % Rec.	94.22	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	31.77	ug/m3	
		Lab Fort Blk. % Rec.	82.92	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	27.81	ug/m3	
		Lab Fort Blk. % Rec.	98.99	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	23.94	ug/m3	
		Lab Fort Blk. % Rec.	110.26	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	44.17	ug/m3	
		Lab Fort Blk. % Rec.	101.71	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.74	ug/m3	
		Lab Fort Blk. % Rec.	92.30	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.74	ug/m3	
		Lab Fort Blk. % Rec.	92.30	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.38	ug/m3	
		Lab Fort Blk. % Rec.	90.82	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.04	ug/m3	
		Lab Fort Blk. % Rec.	90.98	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	12.75	ug/m3	
		Lab Fort Blk. % Rec.	135.40	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 7 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95367					
	4-Ethyl Toluene	Lab Fort Blk. Found	26.40	ug/m3	
		Lab Fort Blk. % Rec.	107.44	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	17.53	ug/m3	
		Lab Fort Blk. % Rec.	97.27	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	17.75	ug/m3	
		Lab Fort Blk. % Rec.	89.54	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	14.23	ug/m3	
		Lab Fort Blk. % Rec.	111.38	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.70	ug/m3	
		Lab Fort Blk. % Rec.	113.48	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	21.27	ug/m3	
		Lab Fort Blk. % Rec.	92.39	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	11.35	ug/m3	
		Lab Fort Blk. % Rec.	109.94	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	20.52	ug/m3	
		Lab Fort Blk. % Rec.	105.74	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	14.54	ug/m3	
		Lab Fort Blk. % Rec.	110.23	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.32	ug/m3	
		Lab Fort Blk. % Rec.	107.16	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.32	ug/m3	
		Lab Fort Blk. % Rec.	107.16	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	44.06	ug/m3	
		Lab Fort Blk. % Rec.	103.44	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	27.57	ug/m3	
		Lab Fort Blk. % Rec.	101.08	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	51.90	ug/m3	
		Lab Fort Blk. % Rec.	100.40	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	41.77	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 8 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95367					
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	121.68	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	44.88	ug/m3	
		Lab Fort Blk. % Rec.	84.15	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	31.32	ug/m3	
		Lab Fort Blk. % Rec.	84.41	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.42	ug/m3	
		Lab Fort Blk. % Rec.	107.50	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.37	ug/m3	
		Lab Fort Blk. % Rec.	103.24	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.72	ug/m3	
		Lab Fort Blk. % Rec.	97.19	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.06	ug/m3	
		Lab Fort Blk. % Rec.	91.09	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	23.31	ug/m3	
		Lab Fort Blk. % Rec.	100.92	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	26.48	ug/m3	
		Lab Fort Blk. % Rec.	107.10	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	35.98	ug/m3	
		Lab Fort Blk. % Rec.	139.00	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.90	ug/m3	
		Lab Fort Blk. % Rec.	95.71	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	15.57	ug/m3	
		Lab Fort Blk. % Rec.	88.48	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	21.83	ug/m3	
		Lab Fort Blk. % Rec.	106.58	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	36.06	ug/m3	
		Lab Fort Blk. % Rec.	107.66	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	38.78	ug/m3	
		Lab Fort Blk. % Rec.	100.94	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 9 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95367					
n-Heptane		Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	20.66	ug/m3	
		Lab Fort Blk. % Rec.	100.86	%	50-150
1,2-Dichlorotetrafluoroethane (114)		Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	38.33	ug/m3	
		Lab Fort Blk. % Rec.	109.66	%	70-130
Tetrahydrofuran		Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.98	ug/m3	
		Lab Fort Blk. % Rec.	101.64	%	50-150
Propene		Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.98	ug/m3	
		Lab Fort Blk. % Rec.	104.46	%	50-150
1,3-Butadiene		Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	11.34	ug/m3	
		Lab Fort Blk. % Rec.	102.52	%	70-130
LFBLANK-95368					
Acetone		Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.00	ug/m3	
		Lab Fort Blk. % Rec.	101.08	%	50-150
Benzene		Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.95	ug/m3	
		Lab Fort Blk. % Rec.	100.04	%	70-130
Carbon Tetrachloride		Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	30.43	ug/m3	
		Lab Fort Blk. % Rec.	96.78	%	70-130
Chloroform		Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	26.92	ug/m3	
		Lab Fort Blk. % Rec.	110.64	%	70-130
1,2-Dichloroethane		Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.35	ug/m3	
		Lab Fort Blk. % Rec.	100.54	%	70-130
1,4-Dichlorobenzene		Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.55	ug/m3	
		Lab Fort Blk. % Rec.	91.66	%	70-130
Ethyl Acetate		Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.99	ug/m3	
		Lab Fort Blk. % Rec.	116.54	%	50-150
Ethylbenzene		Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.97	ug/m3	
		Lab Fort Blk. % Rec.	105.98	%	70-130
Hexane		Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	16.99	ug/m3	
		Lab Fort Blk. % Rec.	96.42	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 10 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95368					
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	13.54	ug/m3	
		Lab Fort Blk. % Rec.	110.20	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.38	ug/m3	
		Lab Fort Blk. % Rec.	90.76	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	21.37	ug/m3	
		Lab Fort Blk. % Rec.	104.34	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	22.23	ug/m3	
		Lab Fort Blk. % Rec.	104.56	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	28.82	ug/m3	
		Lab Fort Blk. % Rec.	85.01	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	19.41	ug/m3	
		Lab Fort Blk. % Rec.	103.20	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	27.33	ug/m3	
		Lab Fort Blk. % Rec.	100.20	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	26.25	ug/m3	
		Lab Fort Blk. % Rec.	97.69	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	34.54	ug/m3	
		Lab Fort Blk. % Rec.	90.13	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	32.18	ug/m3	
		Lab Fort Blk. % Rec.	114.56	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	23.38	ug/m3	
		Lab Fort Blk. % Rec.	107.66	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	44.02	ug/m3	
		Lab Fort Blk. % Rec.	101.35	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.27	ug/m3	
		Lab Fort Blk. % Rec.	90.72	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.12	ug/m3	
		Lab Fort Blk. % Rec.	90.24	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 11 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95368	1,1-Dichloroethane	Lab Fort Blk. Found	20.72	ug/m3	
		Lab Fort Blk. % Rec.	102.36	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	19.07	ug/m3	
	Ethanol	Lab Fort Blk. % Rec.	96.18	%	70-130
		Lab Fort Blank Amt.	9.42	ug/m3	
	4-Ethyl Toluene	Lab Fort Blk. Found	11.80	ug/m3	
		Lab Fort Blk. % Rec.	125.32	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.33	ug/m3	
	t-1,2-Dichloroethylene	Lab Fort Blk. % Rec.	107.12	%	50-150
		Lab Fort Blank Amt.	18.02	ug/m3	
	Vinyl Chloride	Lab Fort Blk. Found	20.04	ug/m3	
		Lab Fort Blk. % Rec.	111.22	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.89	ug/m3	
	Chlorobenzene	Lab Fort Blk. % Rec.	100.38	%	70-130
		Lab Fort Blank Amt.	12.78	ug/m3	
	Chloromethane	Lab Fort Blk. Found	13.97	ug/m3	
		Lab Fort Blk. % Rec.	109.32	%	70-130
	Bromomethane	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.01	ug/m3	
	Chloroethane	Lab Fort Blk. % Rec.	109.54	%	70-130
		Lab Fort Blank Amt.	23.02	ug/m3	
	cis-1,3-Dichloropropene	Lab Fort Blk. Found	21.44	ug/m3	
		Lab Fort Blk. % Rec.	93.14	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	10.86	ug/m3	
	Chlorodibromomethane	Lab Fort Blk. % Rec.	105.20	%	70-130
		Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	21.72	ug/m3	
		Lab Fort Blk. % Rec.	111.94	%	70-130
		Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	14.54	ug/m3	
		Lab Fort Blk. % Rec.	110.30	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.86	ug/m3	
		Lab Fort Blk. % Rec.	109.54	%	70-130
		Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	25.06	ug/m3	
		Lab Fort Blk. % Rec.	110.44	%	70-130
		Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	46.04	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 12 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95368	Chlorodibromomethane	Lab Fort Blk. % Rec.	108.10	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	27.94	ug/m3	
	Bromoform	Lab Fort Blk. % Rec.	102.44	%	70-130
		Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	54.24	ug/m3	
	1,1,2,2-Tetrachloroethane	Lab Fort Blk. % Rec.	104.92	%	70-130
		Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	39.05	ug/m3	
	Hexachlorobutadiene	Lab Fort Blk. % Rec.	113.76	%	70-130
		Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	46.62	ug/m3	
	1,2,4-Trichlorobenzene	Lab Fort Blk. % Rec.	87.41	%	70-130
		Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	31.79	ug/m3	
	1,2,4-Trimethylbenzene	Lab Fort Blk. % Rec.	85.67	%	70-130
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.88	ug/m3	
	1,3,5-Trimethylbenzene	Lab Fort Blk. % Rec.	105.32	%	70-130
		Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.46	ug/m3	
	Cyclohexane	Lab Fort Blk. % Rec.	103.58	%	70-130
		Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.24	ug/m3	
	cis-1,2-Dichloroethylene	Lab Fort Blk. % Rec.	94.37	%	50-150
		Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.88	ug/m3	
	1,2-Dichloropropane	Lab Fort Blk. % Rec.	100.30	%	70-130
		Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	23.08	ug/m3	
	Dichlorodifluoromethane	Lab Fort Blk. % Rec.	99.89	%	70-130
		Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	28.67	ug/m3	
	Benzyl Chloride	Lab Fort Blk. % Rec.	115.98	%	70-130
		Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	34.69	ug/m3	
	Carbon Disulfide	Lab Fort Blk. % Rec.	134.02	%	70-130
		Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.91	ug/m3	
	Vinyl Acetate	Lab Fort Blk. % Rec.	95.82	%	70-130
		Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	16.50	ug/m3	
		Lab Fort Blk. % Rec.	93.75	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 13 of 15

QC Batch Number: BATCH-16669

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95368					
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	20.76	ug/m3	
		Lab Fort Blk. % Rec.	101.40	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	38.11	ug/m3	
		Lab Fort Blk. % Rec.	113.76	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	39.84	ug/m3	
		Lab Fort Blk. % Rec.	103.70	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	20.33	ug/m3	
		Lab Fort Blk. % Rec.	99.24	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	39.67	ug/m3	
		Lab Fort Blk. % Rec.	113.50	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.67	ug/m3	
		Lab Fort Blk. % Rec.	106.34	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.64	ug/m3	
		Lab Fort Blk. % Rec.	100.46	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	10.82	ug/m3	
		Lab Fort Blk. % Rec.	97.84	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/4/2010

Lims Bat # : LIMIT-25342

Page 14 of 15

NOTES:

QC Batch No. : BATCH-16669
Sample ID : LFBLANK-95367
Analysis : Benzyl Chloride

LABORATORY FORTIFIED BLANK 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.

QC Batch No. : BATCH-16669
Sample ID : LFBLANK-95368
Analysis : Benzyl Chloride

LABORATORY FORTIFIED BLANK 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.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 2/4/2010 Lims Bat #: LIMIT-25342 Page 15 of 15

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount Amount of analyte found in a sample.
Blank Method Blank that has been taken though all the steps of the analysis.
LFBLANK Laboratory Fortified Blank (a control sample)
STDADD Standard Added (a laboratory control sample)
Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.
Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.
Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



Phone: 413-525-2332

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Email: info@contestlabs.com

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AIR SAMPLE CHAIN OF CUSTODY RECORD

39 SPRUCE ST

EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: MACTEC Engineering

Address: 107 Audubon Rd, Suite 301

Wakefield, MA 01880

Attention: Kelly Chatterton

Project Location: Providence, RI (Garhaniste)

Sampled By: MAM

Proposal Provided? (For Billing purposes)

yes 3-3-09 proposal date

10A0540

Telephone: (781) 245-6606

Project # 36500 20114

Client PO # 200914545

DATA DELIVERY (check one):

FAX EMAIL WEBSITE CLIENT

Fax #: _____

Email: Kschatterton@mactec.com

Format: EXCEL PDF GIS KEY OTHER

Date Sampled

ONLY USE WHEN USING PUMPS

Start Stop Total Flow Rate Volume

Minutes M³/Min. or (Liters) or Matrix Code*

Date Time Date Time

Field ID	Sample Description	Media	Lab #	Date Time	Date Time	Minutes Sampled	Flow Rate	Volume	Matrix Code*										
	EW-Combined-012810	S	01	112810 9:09	112810 9:39	30	0.2	6	IA	X				-29	-6S	-7S	1475	4093	
	IA-1-012810	S	02	112810 10:34	112810 11:04	30	0.2	6	IA	X				-30	-5	-6	1287	4077	
	IA-2-012810	S	03	112810 10:40	112810 11:10	30	0.2	6	IA	X				-29S	-5S	-6	1738	4090	
	IA-3-012810	S	04	112810 10:36	112810 11:06	30	0.2	6	IA	X				-30	-5S	-6	1266	4067	
	IA-4-012810	S	05	112810 10:38	112810 11:08	30	0.2	6	IA	X				-30	-5S	-5	1334	4056	
	AA-1-012810	S	06	112810 11:30	112810 12:00	30	0.2	6	IA	X				-28	-6	-6	1763	4103	

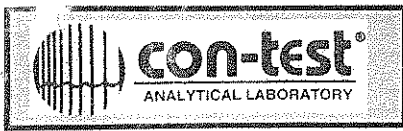
ANALYSIS REQUESTED	" Hg			Please fill out completely, sign, date and retain the yellow copy for your record.
	I n i t i a l	F i n a l	L a b	
70-15 w/low level Scan				Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
				Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.
				Summa Canister ID
				Flow Controller ID

Laboratory Comments: OK

CLIENT COMMENTS: EW-Combined-012810 was sampled from source area

Relinquished by: (signature) <u>Mak Maguire</u>	Date/Time: <u>112810 0110</u>	Turnaround ** <input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input checked="" type="checkbox"/> Other <u>5 Days</u> RUSH * <input type="checkbox"/> *24-Hr <input type="checkbox"/> *48-Hr <input type="checkbox"/> *72-Hr <input type="checkbox"/> *4-Day *Approval Required	Special Requirements Regulations: _____ Data Enhancement/RCP? <input type="checkbox"/> Y <input type="checkbox"/> N Enhanced Data Package <input type="checkbox"/> Y <input type="checkbox"/> N (Surcharge Applies) Required Detection Limits: _____ 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 TB=tedlar bag P=PUF T=tube F= filter C=cassette O = Other
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>1-28-10 1015</u>				
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>1-28-10 1823</u>				
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>112810 1823</u>				

** 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.



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39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: MACTEC
RECEIVED BY: JDP

DATE: 1/28/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

4. Are there any on hold samples? YES NO STORED WHERE:

5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored:

Air Lab

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

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	<u>6</u>
Tedlar Bags	
Regulators	<u>6</u>
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:



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

REPORT DATE 2/9/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25343
JOB NUMBER: 3650080114

PROJECT LOCATION: Providence, RI (Gorham)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
AA-1-020510	10B00028	AIR	Not Specified	to-15 ppbv	
AA-1-020510	10B00028	AIR	Not Specified	to-15 ug/m3	
EW-Combined-0205	10B00027	AIR	Not Specified	to-15 ppbv	
EW-Combined-0205	10B00027	AIR	Not Specified	to-15 ug/m3	
IA-1-020510	10B00023	AIR	Not Specified	to-15 ppbv	
IA-1-020510	10B00023	AIR	Not Specified	to-15 ug/m3	
IA-2-020510	10B00024	AIR	Not Specified	to-15 ppbv	
IA-2-020510	10B00024	AIR	Not Specified	to-15 ug/m3	
IA-3-020510	10B00025	AIR	Not Specified	to-15 ppbv	
IA-3-020510	10B00025	AIR	Not Specified	to-15 ug/m3	
IA-4-020510	10B00026	AIR	Not Specified	to-15 ppbv	
IA-4-020510	10B00026	AIR	Not Specified	to-15 ug/m3	

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:



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

REPORT DATE 2/9/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 200914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25343
JOB NUMBER: 3650080114

Comments :

LIMS BATCH NO. : LIMIT-25343

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133044 contained Carbon Disulfide at 0.02 ppbv = 0.08 ug/m3 and 1,2,4-Trichlorobenzene at 0.02 ppbv = 0.18 ug/m3.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include 10B00023, 10B00024, 10B00024dup, 10B00025, 10B00026, 10B00027, 10B00028, and blank-130000.

In method TO-15, data is not affected by laboratory fortified blank recovery outlier(s) for Benzyl Chloride since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing accreditations: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. #652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).

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.

Handwritten signatures and date: M. C. and 2/10/10

Tod Kopyscinski Air Laboratory Manager
Michael Erickson Laboratory Director

Chris Hall Project Chemist Supervisor
Daren Damboragian Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample

Kelly Chatterton

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WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/9/2010

Page 1 of 25

Project Location: Providence, RI (Gorham)

Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343

Job Number: 3650080114

Field Sample # : AA-1-020510
Sample ID : 10B00028

‡Sampled : 2/5/2010

Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.2	0.05		02/09/10	WSD
Benzene	PPBv	0.21	0.05		02/09/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/09/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/09/10	WSD
Bromoform	PPBv	ND	0.05		02/09/10	WSD
Bromomethane	PPBv	ND	0.05		02/09/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/09/10	WSD
2-Butanone (MEK)	PPBv	0.54	0.05		02/09/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/09/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		02/09/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/09/10	WSD
Chloroethane	PPBv	ND	0.05		02/09/10	WSD
Chloroform	PPBv	ND	0.05		02/09/10	WSD
Chloromethane	PPBv	0.58	0.05		02/09/10	WSD
Cyclohexane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Dichlorodifluoromethane	PPBv	0.49	0.05		02/09/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/09/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/09/10	WSD
Ethanol	PPBv	2.7	0.05		02/09/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/09/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/09/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/09/10	WSD
n-Heptane	PPBv	ND	0.05		02/09/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

Kelly Chatterton
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 WAKEFIELD, MA 01880

2/9/2010
 Page 2 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : AA-1-020510

Sample ID : 10B00028 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/09/10	WSD
Hexane	PPBv	0.15	0.05		02/09/10	WSD
2-Hexanone	PPBv	0.08	0.05		02/09/10	WSD
Isopropanol	PPBv	1.1	0.05		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/09/10	WSD
Methylene Chloride	PPBv	0.54	0.05		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/09/10	WSD
Propene	PPBv	ND	0.20		02/09/10	WSD
Styrene	PPBv	ND	0.05		02/09/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/09/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/09/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/09/10	WSD
Toluene	PPBv	0.17	0.05		02/09/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/09/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/09/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.22	0.05		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/09/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/09/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/09/10	WSD
m/p-Xylene	PPBv	0.12	0.10		02/09/10	WSD
o-Xylene	PPBv	ND	0.05		02/09/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	7.6	0.12		02/09/10	WSD
Benzene	ug/m3	0.68	0.16		02/09/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/09/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/09/10	WSD
Bromoform	ug/m3	ND	0.51		02/09/10	WSD
Bromomethane	ug/m3	ND	0.19		02/09/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/09/10	WSD
2-Butanone (MEK)	ug/m3	1.6	0.15		02/09/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/09/10	WSD

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 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/9/2010
 Page 3 of 25

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : AA-1-020510

Sample ID : 10B00028 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.39	0.31		02/09/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/09/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/09/10	WSD
Chloroethane	ug/m3	ND	0.13		02/09/10	WSD
Chloroform	ug/m3	ND	0.24		02/09/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/09/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/09/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/09/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
Dichlorodifluoromethane	ug/m3	2.4	0.25		02/09/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/09/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/09/10	WSD
Ethanol	ug/m3	5.1	0.09		02/09/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/09/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/09/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/09/10	WSD
n-Heptane	ug/m3	ND	0.20		02/09/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/09/10	WSD
Hexane	ug/m3	0.53	0.18		02/09/10	WSD
2-Hexanone	ug/m3	0.32	0.20		02/09/10	WSD
Isopropanol	ug/m3	2.7	0.12		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/09/10	WSD
Methylene Chloride	ug/m3	1.9	0.17		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/09/10	WSD
Propene	ug/m3	ND	0.35		02/09/10	WSD
Styrene	ug/m3	ND	0.21		02/09/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

Purchase Order No.: 200914545

2/9/2010
 Page 4 of 25

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : AA-1-020510

Sample ID : 10B00028 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/09/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/09/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/09/10	WSD
Toluene	ug/m3	0.64	0.19		02/09/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/09/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/09/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/09/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/09/10	WSD
Trichlorofluoromethane	ug/m3	1.2	0.28		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	0.38		02/09/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/09/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/09/10	WSD
m/p-Xylene	ug/m3	0.50	0.43		02/09/10	WSD
o-Xylene	ug/m3	ND	0.22		02/09/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/9/2010
 Page 5 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : EW-Combined-020510

Sample ID : 10B00027 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	ND	4.0		02/09/10	WSD
Benzene	PPBv	ND	1.0		02/09/10	WSD
Benzyl Chloride	PPBv	ND	1.0		02/09/10	WSD
Bromodichloromethane	PPBv	ND	1.0		02/09/10	WSD
Bromoform	PPBv	ND	1.0		02/09/10	WSD
Bromomethane	PPBv	ND	1.0		02/09/10	WSD
1,3-Butadiene	PPBv	ND	2.0		02/09/10	WSD
2-Butanone (MEK)	PPBv	3.8	1.0		02/09/10	WSD
Carbon Disulfide	PPBv	ND	1.0		02/09/10	WSD
Carbon Tetrachloride	PPBv	ND	1.0		02/09/10	WSD
Chlorobenzene	PPBv	ND	1.0		02/09/10	WSD
Chlorodibromomethane	PPBv	ND	1.0		02/09/10	WSD
Chloroethane	PPBv	4.2	1.0		02/09/10	WSD
Chloroform	PPBv	1.2	1.0		02/09/10	WSD
Chloromethane	PPBv	ND	1.0		02/09/10	WSD
Cyclohexane	PPBv	ND	1.0		02/09/10	WSD
1,2-Dibromoethane	PPBv	ND	1.0		02/09/10	WSD
1,2-Dichlorobenzene	PPBv	ND	1.0		02/09/10	WSD
1,3-Dichlorobenzene	PPBv	ND	1.0		02/09/10	WSD
1,4-Dichlorobenzene	PPBv	ND	1.0		02/09/10	WSD
Dichlorodifluoromethane	PPBv	ND	1.0		02/09/10	WSD
1,1-Dichloroethane	PPBv	91	1.0		02/09/10	WSD
1,2-Dichloroethane	PPBv	ND	1.0		02/09/10	WSD
1,1-Dichloroethylene	PPBv	17	1.0		02/09/10	WSD
cis-1,2-Dichloroethylene	PPBv	72	1.0		02/09/10	WSD
t-1,2-Dichloroethylene	PPBv	1.2	1.0		02/09/10	WSD
1,2-Dichloropropane	PPBv	ND	1.0		02/09/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	1.0		02/09/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	1.0		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	1.0		02/09/10	WSD
Ethanol	PPBv	32	1.0		02/09/10	WSD
Ethyl Acetate	PPBv	ND	1.0		02/09/10	WSD
Ethylbenzene	PPBv	ND	1.0		02/09/10	WSD
4-Ethyl Toluene	PPBv	ND	1.0		02/09/10	WSD
n-Heptane	PPBv	ND	1.0		02/09/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

Kelly Chatterton
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 WAKEFIELD, MA 01880

2/9/2010
 Page 6 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : EW-Combined-020510

Sample ID : 10B00027 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	1.0		02/09/10	WSD
Hexane	PPBv	ND	1.0		02/09/10	WSD
2-Hexanone	PPBv	ND	1.0		02/09/10	WSD
Isopropanol	PPBv	ND	2.0		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	1.0		02/09/10	WSD
Methylene Chloride	PPBv	ND	4.0		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	1.0		02/09/10	WSD
Propene	PPBv	ND	4.0		02/09/10	WSD
Styrene	PPBv	ND	1.0		02/09/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	1.0		02/09/10	WSD
Tetrachloroethylene	PPBv	29	1.0		02/09/10	WSD
Tetrahydrofuran	PPBv	11	1.0		02/09/10	WSD
Toluene	PPBv	ND	1.0		02/09/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	1.0		02/09/10	WSD
1,1,1-Trichloroethane	PPBv	470	1.0		02/09/10	WSD
1,1,2-Trichloroethane	PPBv	ND	1.0		02/09/10	WSD
Trichloroethylene	PPBv	260	1.0		02/09/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	40	1.0		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	1.0		02/09/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	1.0		02/09/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	1.0		02/09/10	WSD
Vinyl Acetate	PPBv	ND	4.0		02/09/10	WSD
Vinyl Chloride	PPBv	ND	1.0		02/09/10	WSD
m/p-Xylene	PPBv	ND	2.0		02/09/10	WSD
o-Xylene	PPBv	ND	1.0		02/09/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	ND	9.6		02/09/10	WSD
Benzene	ug/m3	ND	3.2		02/09/10	WSD
Benzyl Chloride	ug/m3	ND	5.2		02/09/10	WSD
Bromodichloromethane	ug/m3	ND	6.6		02/09/10	WSD
Bromoform	ug/m3	ND	11		02/09/10	WSD
Bromomethane	ug/m3	ND	3.8		02/09/10	WSD
1,3-Butadiene	ug/m3	ND	4.5		02/09/10	WSD
2-Butanone (MEK)	ug/m3	11	3.0		02/09/10	WSD
Carbon Disulfide	ug/m3	ND	3.2		02/09/10	WSD

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Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/9/2010
 Page 7 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : EW-Combined-020510

Sample ID : 10B00027 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	6.2		02/09/10	WSD
Chlorobenzene	ug/m3	ND	4.6		02/09/10	WSD
Chlorodibromomethane	ug/m3	ND	8.6		02/09/10	WSD
Chloroethane	ug/m3	11	2.6		02/09/10	WSD
Chloroform	ug/m3	5.8	4.8		02/09/10	WSD
Chloromethane	ug/m3	ND	2.0		02/09/10	WSD
Cyclohexane	ug/m3	ND	3.4		02/09/10	WSD
1,2-Dibromoethane	ug/m3	ND	7.6		02/09/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	6.0		02/09/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	6.0		02/09/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	6.0		02/09/10	WSD
Dichlorodifluoromethane	ug/m3	ND	5.0		02/09/10	WSD
1,1-Dichloroethane	ug/m3	370	4.0		02/09/10	WSD
1,2-Dichloroethane	ug/m3	ND	4.0		02/09/10	WSD
1,1-Dichloroethylene	ug/m3	66	4.0		02/09/10	WSD
cis-1,2-Dichloroethylene	ug/m3	280	4.0		02/09/10	WSD
t-1,2-Dichloroethylene	ug/m3	4.6	4.0		02/09/10	WSD
1,2-Dichloropropane	ug/m3	ND	4.6		02/09/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	4.4		02/09/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	4.4		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	7.0		02/09/10	WSD
Ethanol	ug/m3	60	1.8		02/09/10	WSD
Ethyl Acetate	ug/m3	ND	3.6		02/09/10	WSD
Ethylbenzene	ug/m3	ND	4.4		02/09/10	WSD
4-Ethyl Toluene	ug/m3	ND	5.0		02/09/10	WSD
n-Heptane	ug/m3	ND	4.0		02/09/10	WSD
Hexachlorobutadiene	ug/m3	ND	11		02/09/10	WSD
Hexane	ug/m3	ND	3.6		02/09/10	WSD
2-Hexanone	ug/m3	ND	4.0		02/09/10	WSD
Isopropanol	ug/m3	ND	5.0		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	3.6		02/09/10	WSD
Methylene Chloride	ug/m3	ND	14		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	4.0		02/09/10	WSD
Propene	ug/m3	ND	6.9		02/09/10	WSD
Styrene	ug/m3	ND	4.2		02/09/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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WAKEFIELD, MA 01880

2/9/2010
Page 8 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
Job Number: 3650080114

Field Sample # : EW-Combined-020510

Sample ID : 10B00027 ‡Sampled : 2/5/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	6.8		02/09/10	WSD
Tetrachloroethylene	ug/m3	200	6.8		02/09/10	WSD
Tetrahydrofuran	ug/m3	32	3.0		02/09/10	WSD
Toluene	ug/m3	ND	3.8		02/09/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	7.4		02/09/10	WSD
1,1,1-Trichloroethane	ug/m3	2500	5.4		02/09/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	5.4		02/09/10	WSD
Trichloroethylene	ug/m3	1400	5.4		02/09/10	WSD
Trichlorofluoromethane	ug/m3	230	5.6		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	7.6		02/09/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	5.0		02/09/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	5.0		02/09/10	WSD
Vinyl Acetate	ug/m3	ND	15		02/09/10	WSD
Vinyl Chloride	ug/m3	ND	2.6		02/09/10	WSD
m/p-Xylene	ug/m3	ND	8.6		02/09/10	WSD
o-Xylene	ug/m3	ND	4.4		02/09/10	WSD

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

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WAKEFIELD, MA 01880

2/9/2010
Page 9 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
Job Number: 3650080114

Field Sample # : IA-1-020510

Sample ID : 10B00023 ‡Sampled : 2/5/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	8.0	0.05		02/08/10	WSD
Benzene	PPBv	0.31	0.05		02/08/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/08/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/08/10	WSD
Bromoform	PPBv	ND	0.05		02/08/10	WSD
Bromomethane	PPBv	ND	0.05		02/08/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/08/10	WSD
2-Butanone (MEK)	PPBv	0.80	0.05		02/08/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/08/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		02/08/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/08/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/08/10	WSD
Chloroethane	PPBv	ND	0.05		02/08/10	WSD
Chloroform	PPBv	0.10	0.05		02/08/10	WSD
Chloromethane	PPBv	0.63	0.05		02/08/10	WSD
Cyclohexane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
Dichlorodifluoromethane	PPBv	0.49	0.05		02/08/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/08/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/08/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/08/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/08/10	WSD
Ethanol	PPBv	15	0.05		02/08/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/08/10	WSD
Ethylbenzene	PPBv	0.07	0.05		02/08/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/08/10	WSD
n-Heptane	PPBv	ND	0.05		02/08/10	WSD

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2/9/2010
 Page 10 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-1-020510

Sample ID : 10B00023 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/08/10	WSD
Hexane	PPBv	0.23	0.05		02/08/10	WSD
2-Hexanone	PPBv	0.11	0.05		02/08/10	WSD
Isopropanol	PPBv	3.8	0.05		02/08/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/08/10	WSD
Methylene Chloride	PPBv	0.43	0.05		02/08/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/08/10	WSD
Propene	PPBv	ND	0.20		02/08/10	WSD
Styrene	PPBv	ND	0.05		02/08/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/08/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/08/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/08/10	WSD
Toluene	PPBv	0.22	0.05		02/08/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,1,1-Trichloroethane	PPBv	0.14	0.05		02/08/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/08/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/08/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.22	0.05		02/08/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.09	0.05		02/08/10	WSD
1,2,4-Trimethylbenzene	PPBv	0.05	0.05		02/08/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/08/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/08/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/08/10	WSD
m/p-Xylene	PPBv	0.24	0.10		02/08/10	WSD
o-Xylene	PPBv	0.09	0.05		02/08/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	19	0.12		02/08/10	WSD
Benzene	ug/m3	0.98	0.16		02/08/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/08/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/08/10	WSD
Bromoform	ug/m3	ND	0.51		02/08/10	WSD
Bromomethane	ug/m3	ND	0.19		02/08/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/08/10	WSD
2-Butanone (MEK)	ug/m3	2.4	0.15		02/08/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/08/10	WSD

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2/9/2010
 Page 11 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-1-020510

Sample ID : 10B00023 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.40	0.31		02/08/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/08/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/08/10	WSD
Chloroethane	ug/m3	ND	0.13		02/08/10	WSD
Chloroform	ug/m3	0.47	0.24		02/08/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/08/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/08/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/08/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
Dichlorodifluoromethane	ug/m3	2.4	0.25		02/08/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/08/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/08/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/08/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/08/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/08/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/08/10	WSD
Ethanol	ug/m3	29	0.09		02/08/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/08/10	WSD
Ethylbenzene	ug/m3	0.32	0.22		02/08/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/08/10	WSD
n-Heptane	ug/m3	ND	0.20		02/08/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/08/10	WSD
Hexane	ug/m3	0.82	0.18		02/08/10	WSD
2-Hexanone	ug/m3	0.47	0.20		02/08/10	WSD
Isopropanol	ug/m3	9.4	0.12		02/08/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/08/10	WSD
Methylene Chloride	ug/m3	1.5	0.17		02/08/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/08/10	WSD
Propene	ug/m3	ND	0.35		02/08/10	WSD
Styrene	ug/m3	ND	0.21		02/08/10	WSD

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2/9/2010
 Page 12 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-1-020510

Sample ID : 10B00023 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/08/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/08/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/08/10	WSD
Toluene	ug/m3	0.82	0.19		02/08/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/08/10	WSD
1,1,1-Trichloroethane	ug/m3	0.76	0.27		02/08/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/08/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/08/10	WSD
Trichlorofluoromethane	ug/m3	1.3	0.28		02/08/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.71	0.38		02/08/10	WSD
1,2,4-Trimethylbenzene	ug/m3	0.26	0.25		02/08/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/08/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/08/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/08/10	WSD
m/p-Xylene	ug/m3	1.0	0.43		02/08/10	WSD
o-Xylene	ug/m3	0.38	0.22		02/08/10	WSD

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2/9/2010
 Page 13 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-2-020510

Sample ID : 10B00024 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.3	0.05		02/08/10	WSD
Benzene	PPBv	0.27	0.05		02/08/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/08/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/08/10	WSD
Bromoform	PPBv	ND	0.05		02/08/10	WSD
Bromomethane	PPBv	ND	0.05		02/08/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/08/10	WSD
2-Butanone (MEK)	PPBv	0.24	0.05		02/08/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/08/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		02/08/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/08/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/08/10	WSD
Chloroethane	PPBv	ND	0.05		02/08/10	WSD
Chloroform	PPBv	0.10	0.05		02/08/10	WSD
Chloromethane	PPBv	0.62	0.05		02/08/10	WSD
Cyclohexane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
Dichlorodifluoromethane	PPBv	0.51	0.05		02/08/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/08/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/08/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/08/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/08/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/08/10	WSD
Ethanol	PPBv	19	0.05		02/08/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/08/10	WSD
Ethylbenzene	PPBv	0.08	0.05		02/08/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/08/10	WSD
n-Heptane	PPBv	ND	0.05		02/08/10	WSD

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2/9/2010
 Page 14 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-2-020510

Sample ID : 10B00024 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/08/10	WSD
Hexane	PPBv	0.18	0.05		02/08/10	WSD
2-Hexanone	PPBv	ND	0.05		02/08/10	WSD
Isopropanol	PPBv	1.5	0.05		02/08/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/08/10	WSD
Methylene Chloride	PPBv	0.26	0.05		02/08/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/08/10	WSD
Propene	PPBv	ND	0.20		02/08/10	WSD
Styrene	PPBv	ND	0.05		02/08/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/08/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/08/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/08/10	WSD
Toluene	PPBv	0.25	0.05		02/08/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/08/10	WSD
1,1,1-Trichloroethane	PPBv	0.13	0.05		02/08/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/08/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/08/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.23	0.05		02/08/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/08/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/08/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/08/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/08/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/08/10	WSD
m/p-Xylene	PPBv	0.26	0.10		02/08/10	WSD
o-Xylene	PPBv	0.09	0.05		02/08/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	7.8	0.12		02/08/10	WSD
Benzene	ug/m3	0.86	0.16		02/08/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/08/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/08/10	WSD
Bromoform	ug/m3	ND	0.51		02/08/10	WSD
Bromomethane	ug/m3	ND	0.19		02/08/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/08/10	WSD
2-Butanone (MEK)	ug/m3	0.70	0.15		02/08/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/08/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

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 WAKEFIELD, MA 01880

2/9/2010
 Page 15 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-2-020510

Sample ID : 10B00024 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.40	0.31		02/08/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/08/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/08/10	WSD
Chloroethane	ug/m3	ND	0.13		02/08/10	WSD
Chloroform	ug/m3	0.47	0.24		02/08/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/08/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/08/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/08/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/08/10	WSD
Dichlorodifluoromethane	ug/m3	2.5	0.25		02/08/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/08/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/08/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/08/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/08/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/08/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/08/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/08/10	WSD
Ethanol	ug/m3	35	0.09		02/08/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/08/10	WSD
Ethylbenzene	ug/m3	0.34	0.22		02/08/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/08/10	WSD
n-Heptane	ug/m3	ND	0.20		02/08/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/08/10	WSD
Hexane	ug/m3	0.64	0.18		02/08/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/08/10	WSD
Isopropanol	ug/m3	3.6	0.12		02/08/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/08/10	WSD
Methylene Chloride	ug/m3	0.90	0.17		02/08/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/08/10	WSD
Propene	ug/m3	ND	0.35		02/08/10	WSD
Styrene	ug/m3	ND	0.21		02/08/10	WSD

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‡ See attached chain-of-custody record for time sampled



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2/9/2010

Page 16 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)

LIMS-BAT #: LIMIT-25343

Date Received: 2/5/2010

Job Number: 3650080114

Field Sample #: IA-2-020510

Sample ID: 10B00024

‡Sampled: 2/5/2010

Not Specified

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/08/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/08/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/08/10	WSD
Toluene	ug/m3	0.93	0.19		02/08/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/08/10	WSD
1,1,1-Trichloroethane	ug/m3	0.73	0.27		02/08/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/08/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/08/10	WSD
Trichlorofluoromethane	ug/m3	1.3	0.28		02/08/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.53	0.38		02/08/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/08/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/08/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/08/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/08/10	WSD
m/p-Xylene	ug/m3	1.1	0.43		02/08/10	WSD
o-Xylene	ug/m3	0.40	0.22		02/08/10	WSD

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/9/2010
 Page 17 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-3-020510

Sample ID : 10B00025 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	8.7	0.05		02/09/10	WSD
Benzene	PPBv	0.27	0.05		02/09/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/09/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/09/10	WSD
Bromoform	PPBv	ND	0.05		02/09/10	WSD
Bromomethane	PPBv	ND	0.05		02/09/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/09/10	WSD
2-Butanone (MEK)	PPBv	0.69	0.05		02/09/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/09/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/09/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/09/10	WSD
Chloroethane	PPBv	ND	0.05		02/09/10	WSD
Chloroform	PPBv	0.11	0.05		02/09/10	WSD
Chloromethane	PPBv	1.4	0.05		02/09/10	WSD
Cyclohexane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Dichlorodifluoromethane	PPBv	0.50	0.05		02/09/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/09/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/09/10	WSD
Ethanol	PPBv	21	0.05		02/09/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/09/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/09/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/09/10	WSD
n-Heptane	PPBv	ND	0.05		02/09/10	WSD

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2/9/2010
 Page 18 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-3-020510

Sample ID : 10B00025 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/09/10	WSD
Hexane	PPBv	0.13	0.05		02/09/10	WSD
2-Hexanone	PPBv	0.10	0.05		02/09/10	WSD
Isopropanol	PPBv	4.0	0.05		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/09/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/09/10	WSD
Propene	PPBv	ND	0.20		02/09/10	WSD
Styrene	PPBv	ND	0.05		02/09/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/09/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/09/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/09/10	WSD
Toluene	PPBv	0.21	0.05		02/09/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,1,1-Trichloroethane	PPBv	0.13	0.05		02/09/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/09/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/09/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.22	0.05		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/09/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/09/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/09/10	WSD
m/p-Xylene	PPBv	0.16	0.10		02/09/10	WSD
o-Xylene	PPBv	0.06	0.05		02/09/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	21	0.12		02/09/10	WSD
Benzene	ug/m3	0.86	0.16		02/09/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/09/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/09/10	WSD
Bromoform	ug/m3	ND	0.51		02/09/10	WSD
Bromomethane	ug/m3	ND	0.19		02/09/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/09/10	WSD
2-Butanone (MEK)	ug/m3	2.0	0.15		02/09/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/09/10	WSD

RL = Reporting Limit

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2/9/2010
 Page 19 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-3-020510

Sample ID : 10B00025 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.42	0.31		02/09/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/09/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/09/10	WSD
Chloroethane	ug/m3	ND	0.13		02/09/10	WSD
Chloroform	ug/m3	0.53	0.24		02/09/10	WSD
Chloromethane	ug/m3	2.9	0.10		02/09/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/09/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/09/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
Dichlorodifluoromethane	ug/m3	2.5	0.25		02/09/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/09/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/09/10	WSD
Ethanol	ug/m3	40	0.09		02/09/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/09/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/09/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/09/10	WSD
n-Heptane	ug/m3	ND	0.20		02/09/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/09/10	WSD
Hexane	ug/m3	0.44	0.18		02/09/10	WSD
2-Hexanone	ug/m3	0.39	0.20		02/09/10	WSD
Isopropanol	ug/m3	9.9	0.12		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/09/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/09/10	WSD
Propene	ug/m3	ND	0.35		02/09/10	WSD
Styrene	ug/m3	ND	0.21		02/09/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/9/2010
Page 20 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
Job Number: 3650080114

Field Sample # : IA-3-020510

Sample ID : 10B00025 ‡Sampled : 2/5/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/09/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/09/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/09/10	WSD
Toluene	ug/m3	0.78	0.19		02/09/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/09/10	WSD
1,1,1-Trichloroethane	ug/m3	0.71	0.27		02/09/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/09/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/09/10	WSD
Trichlorofluoromethane	ug/m3	1.3	0.28		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.52	0.38		02/09/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/09/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/09/10	WSD
m/p-Xylene	ug/m3	0.69	0.43		02/09/10	WSD
o-Xylene	ug/m3	0.26	0.22		02/09/10	WSD

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 Page 21 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-4-020510

Sample ID : 10B00026 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	2.1	0.05		02/09/10	WSD
Benzene	PPBv	0.28	0.05		02/09/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/09/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/09/10	WSD
Bromoform	PPBv	ND	0.05		02/09/10	WSD
Bromomethane	PPBv	ND	0.05		02/09/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/09/10	WSD
2-Butanone (MEK)	PPBv	0.23	0.05		02/09/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/09/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/09/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/09/10	WSD
Chloroethane	PPBv	ND	0.05		02/09/10	WSD
Chloroform	PPBv	0.10	0.05		02/09/10	WSD
Chloromethane	PPBv	0.63	0.05		02/09/10	WSD
Cyclohexane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
Dichlorodifluoromethane	PPBv	0.51	0.05		02/09/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/09/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/09/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/09/10	WSD
Ethanol	PPBv	18	0.05		02/09/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/09/10	WSD
Ethylbenzene	PPBv	0.06	0.05		02/09/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/09/10	WSD
n-Heptane	PPBv	ND	0.05		02/09/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

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 WAKEFIELD, MA 01880

2/9/2010
 Page 22 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-4-020510

Sample ID : 10B00026 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/09/10	WSD
Hexane	PPBv	0.10	0.05		02/09/10	WSD
2-Hexanone	PPBv	ND	0.05		02/09/10	WSD
Isopropanol	PPBv	ND	0.10		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/09/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/09/10	WSD
Propene	PPBv	ND	0.20		02/09/10	WSD
Styrene	PPBv	ND	0.05		02/09/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/09/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/09/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/09/10	WSD
Toluene	PPBv	0.21	0.05		02/09/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/09/10	WSD
1,1,1-Trichloroethane	PPBv	0.14	0.05		02/09/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/09/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/09/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.23	0.05		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/09/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/09/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/09/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/09/10	WSD
m/p-Xylene	PPBv	0.19	0.10		02/09/10	WSD
o-Xylene	PPBv	0.07	0.05		02/09/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	4.9	0.12		02/09/10	WSD
Benzene	ug/m3	0.88	0.16		02/09/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/09/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/09/10	WSD
Bromoform	ug/m3	ND	0.51		02/09/10	WSD
Bromomethane	ug/m3	ND	0.19		02/09/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/09/10	WSD
2-Butanone (MEK)	ug/m3	0.69	0.15		02/09/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/09/10	WSD

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WAKEFIELD, MA 01880

2/9/2010
Page 23 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
Job Number: 3650080114

Field Sample # : IA-4-020510

Sample ID : 10B00026 ‡Sampled : 2/5/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.43	0.31		02/09/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/09/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/09/10	WSD
Chloroethane	ug/m3	ND	0.13		02/09/10	WSD
Chloroform	ug/m3	0.46	0.24		02/09/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/09/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/09/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/09/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/09/10	WSD
Dichlorodifluoromethane	ug/m3	2.5	0.25		02/09/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/09/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/09/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/09/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/09/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/09/10	WSD
Ethanol	ug/m3	34	0.09		02/09/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/09/10	WSD
Ethylbenzene	ug/m3	0.26	0.22		02/09/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/09/10	WSD
n-Heptane	ug/m3	ND	0.20		02/09/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/09/10	WSD
Hexane	ug/m3	0.37	0.18		02/09/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/09/10	WSD
Isopropanol	ug/m3	ND	0.25		02/09/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/09/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/09/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/09/10	WSD
Propene	ug/m3	ND	0.35		02/09/10	WSD
Styrene	ug/m3	ND	0.21		02/09/10	WSD

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2/9/2010
 Page 24 of 25

Purchase Order No.: 200914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/5/2010

LIMS-BAT #: LIMIT-25343
 Job Number: 3650080114

Field Sample # : IA-4-020510

Sample ID : 10B00026 ‡Sampled : 2/5/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/09/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/09/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/09/10	WSD
Toluene	ug/m3	0.79	0.19		02/09/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/09/10	WSD
1,1,1-Trichloroethane	ug/m3	0.76	0.27		02/09/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/09/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/09/10	WSD
Trichlorofluoromethane	ug/m3	1.3	0.28		02/09/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	0.38		02/09/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/09/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/09/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/09/10	WSD
m/p-Xylene	ug/m3	0.81	0.43		02/09/10	WSD
o-Xylene	ug/m3	0.31	0.22		02/09/10	WSD

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‡ See attached chain-of-custody record for time sampled



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Kelly Chatterton

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WAKEFIELD, MA 01880

Project Location: Providence, RI (Gorham)

Date Received: 2/5/2010

Purchase Order No.: 200914545

2/9/2010

Page 25 of 25

LIMS-BAT #: LIMIT-25343

Job Number: 3650080114

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 1 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00023	4-Bromofluorobenzene	Surrogate Recovery	104.25	%	70-130
10B00024	Acetone	Sample Amount	7.79	ug/m3	
		Duplicate Value	7.62	ug/m3	
		Duplicate RPD	2.18	%	
	Benzene	Sample Amount	0.86	ug/m3	
		Duplicate Value	0.87	ug/m3	
		Duplicate RPD	1.10	%	
	Carbon Tetrachloride	Sample Amount	0.40	ug/m3	
		Duplicate Value	0.43	ug/m3	
		Duplicate RPD	7.51	%	
	Chloroform	Sample Amount	0.47	ug/m3	
		Duplicate Value	0.46	ug/m3	
		Duplicate RPD	2.08	%	
	Ethylbenzene	Sample Amount	0.34	ug/m3	
		Duplicate Value	0.34	ug/m3	
		Duplicate RPD	0.00	%	
	Hexane	Sample Amount	0.63	ug/m3	
		Duplicate Value	0.66	ug/m3	
		Duplicate RPD	3.79	%	
	Isopropanol	Sample Amount	3.63	ug/m3	
		Duplicate Value	3.61	ug/m3	
		Duplicate RPD	0.67	%	
	2-Butanone (MEK)	Sample Amount	0.69	ug/m3	
		Duplicate Value	0.68	ug/m3	
		Duplicate RPD	2.13	%	
	Toluene	Sample Amount	0.92	ug/m3	
		Duplicate Value	0.91	ug/m3	
		Duplicate RPD	1.22	%	
	1,1,1-Trichloroethane	Sample Amount	0.73	ug/m3	
		Duplicate Value	0.74	ug/m3	
		Duplicate RPD	2.21	%	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Sample Amount	0.52	ug/m3	
		Duplicate Value	0.52	ug/m3	
		Duplicate RPD	0.00	%	
	Trichlorofluoromethane	Sample Amount	1.29	ug/m3	
		Duplicate Value	1.26	ug/m3	
		Duplicate RPD	2.19	%	
	o-Xylene	Sample Amount	0.39	ug/m3	
		Duplicate Value	0.41	ug/m3	
		Duplicate RPD	4.25	%	
	m/p-Xylene	Sample Amount	1.14	ug/m3	
		Duplicate Value	1.15	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 2 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00024	m/p-Xylene	Duplicate RPD	0.37	%	
	Ethanol	Sample Amount	35.48	ug/m3	
		Duplicate Value	35.02	ug/m3	
		Duplicate RPD	1.29	%	
	Methylene Chloride	Sample Amount	0.90	ug/m3	
		Duplicate Value	0.94	ug/m3	
		Duplicate RPD	4.51	%	
	Chloromethane	Sample Amount	1.26	ug/m3	
		Duplicate Value	1.24	ug/m3	
		Duplicate RPD	1.97	%	
	Dichlorodifluoromethane	Sample Amount	2.50	ug/m3	
		Duplicate Value	2.48	ug/m3	
		Duplicate RPD	0.59	%	
	4-Bromofluorobenzene	Surrogate Recovery	104.37	%	70-130
10B00025	4-Bromofluorobenzene	Surrogate Recovery	105.75	%	70-130
10B00026	4-Bromofluorobenzene	Surrogate Recovery	105.37	%	70-130
10B00027	4-Bromofluorobenzene	Surrogate Recovery	105.62	%	70-130
10B00028	4-Bromofluorobenzene	Surrogate Recovery	105.37	%	70-130
BLANK-133044	Acetone	Blank	<0.20	ug/m3	
	Benzene	Blank	<0.07	ug/m3	
	Carbon Tetrachloride	Blank	<0.13	ug/m3	
	Chloroform	Blank	<0.10	ug/m3	
	1,2-Dichloroethane	Blank	<0.08	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.12	ug/m3	
	Ethyl Acetate	Blank	<0.08	ug/m3	
	Ethylbenzene	Blank	<0.09	ug/m3	
	Hexane	Blank	<0.08	ug/m3	
	Isopropanol	Blank	<0.10	ug/m3	
	2-Butanone (MEK)	Blank	<0.12	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.08	ug/m3	
	Styrene	Blank	<0.09	ug/m3	
	Tetrachloroethylene	Blank	<0.14	ug/m3	
	Toluene	Blank	<0.08	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.11	ug/m3	
	Trichloroethylene	Blank	<0.11	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.16	ug/m3	
	Trichlorofluoromethane	Blank	<0.12	ug/m3	
	o-Xylene	Blank	<0.09	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 3 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133044	m/p-Xylene	Blank	<0.18	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,1-Dichloroethane	Blank	<0.08	ug/m3	
	1,1-Dichloroethylene	Blank	<0.08	ug/m3	
	Ethanol	Blank	<0.16	ug/m3	
	4-Ethyl Toluene	Blank	<0.10	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.08	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	Vinyl Chloride	Blank	<0.06	ug/m3	
	Methylene Chloride	Blank	<0.28	ug/m3	
	Chlorobenzene	Blank	<0.10	ug/m3	
	Chloromethane	Blank	<0.04	ug/m3	
	Bromomethane	Blank	<0.08	ug/m3	
	Chloroethane	Blank	<0.06	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	Chlorodibromomethane	Blank	<0.18	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.11	ug/m3	
	Bromoform	Blank	<0.21	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.14	ug/m3	
	Hexachlorobutadiene	Blank	<0.22	ug/m3	
	1,2,4-Trichlorobenzene	Blank	0.18	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.10	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.10	ug/m3	
	Cyclohexane	Blank	<0.07	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	1,2-Dichloropropane	Blank	<0.10	ug/m3	
	Dichlorodifluoromethane	Blank	<0.10	ug/m3	
	Benzyl Chloride	Blank	<0.11	ug/m3	
	Carbon Disulfide	Blank	0.08	ug/m3	
	Vinyl Acetate	Blank	<0.29	ug/m3	
	2-Hexanone	Blank	<0.08	ug/m3	
	Bromodichloromethane	Blank	<0.14	ug/m3	
	1,2-Dibromoethane	Blank	<0.16	ug/m3	
	n-Heptane	Blank	<0.08	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.14	ug/m3	
	Tetrahydrofuran	Blank	<0.06	ug/m3	
	Propene	Blank	<0.14	ug/m3	
	1,3-Butadiene	Blank	<0.09	ug/m3	
LFBLANK-95369	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	11.57	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 4 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95369	Acetone	Lab Fort Blk. % Rec.	97.46	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.86	ug/m3	
	Carbon Tetrachloride	Lab Fort Blk. % Rec.	99.47	%	70-130
		Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	28.16	ug/m3	
	Chloroform	Lab Fort Blk. % Rec.	89.54	%	70-130
		Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	26.39	ug/m3	
	1,2-Dichloroethane	Lab Fort Blk. % Rec.	108.48	%	70-130
		Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.40	ug/m3	
	1,4-Dichlorobenzene	Lab Fort Blk. % Rec.	100.80	%	70-130
		Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.50	ug/m3	
	Ethyl Acetate	Lab Fort Blk. % Rec.	94.82	%	70-130
		Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	23.36	ug/m3	
	Ethylbenzene	Lab Fort Blk. % Rec.	129.66	%	50-150
		Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	23.06	ug/m3	
	Hexane	Lab Fort Blk. % Rec.	106.42	%	70-130
		Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	18.89	ug/m3	
	Isopropanol	Lab Fort Blk. % Rec.	107.22	%	70-130
		Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	13.68	ug/m3	
	2-Butanone (MEK)	Lab Fort Blk. % Rec.	111.38	%	50-150
		Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	14.63	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blk. % Rec.	99.28	%	70-130
		Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	21.70	ug/m3	
	Styrene	Lab Fort Blk. % Rec.	105.98	%	70-130
		Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	23.42	ug/m3	
	Tetrachloroethylene	Lab Fort Blk. % Rec.	110.12	%	70-130
		Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	32.83	ug/m3	
	Toluene	Lab Fort Blk. % Rec.	96.83	%	70-130
		Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	19.72	ug/m3	
		Lab Fort Blk. % Rec.	104.82	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 5 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95369	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.62	ug/m3	
		Lab Fort Blk. % Rec.	90.26	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	24.95	ug/m3	
		Lab Fort Blk. % Rec.	92.88	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	34.51	ug/m3	
		Lab Fort Blk. % Rec.	90.07	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	27.35	ug/m3	
		Lab Fort Blk. % Rec.	97.37	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	23.27	ug/m3	
		Lab Fort Blk. % Rec.	107.16	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	44.43	ug/m3	
		Lab Fort Blk. % Rec.	102.31	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.30	ug/m3	
		Lab Fort Blk. % Rec.	94.16	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.51	ug/m3	
		Lab Fort Blk. % Rec.	94.86	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	21.80	ug/m3	
		Lab Fort Blk. % Rec.	107.70	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.60	ug/m3	
		Lab Fort Blk. % Rec.	93.80	%	70-130
Ethanol	Lab Fort Blank Amt.	9.42	ug/m3		
	Lab Fort Blk. Found	13.01	ug/m3		
	Lab Fort Blk. % Rec.	138.12	%	50-150	
4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3		
	Lab Fort Blk. Found	26.64	ug/m3		
	Lab Fort Blk. % Rec.	108.38	%	50-150	
Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3		
	Lab Fort Blk. Found	22.35	ug/m3		
	Lab Fort Blk. % Rec.	124.00	%	70-130	
t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3		
	Lab Fort Blk. Found	21.52	ug/m3		
	Lab Fort Blk. % Rec.	108.56	%	70-130	
Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3		



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 6 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95369					
	Vinyl Chloride	Lab Fort Blk. Found	14.49	ug/m3	
		Lab Fort Blk. % Rec.	113.44	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	18.76	ug/m3	
		Lab Fort Blk. % Rec.	108.06	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	23.13	ug/m3	
		Lab Fort Blk. % Rec.	100.46	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	11.05	ug/m3	
		Lab Fort Blk. % Rec.	107.08	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	20.94	ug/m3	
		Lab Fort Blk. % Rec.	107.92	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.61	ug/m3	
		Lab Fort Blk. % Rec.	118.37	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.79	ug/m3	
		Lab Fort Blk. % Rec.	109.22	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.44	ug/m3	
		Lab Fort Blk. % Rec.	107.70	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	43.73	ug/m3	
		Lab Fort Blk. % Rec.	102.68	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	27.52	ug/m3	
		Lab Fort Blk. % Rec.	100.88	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	57.10	ug/m3	
		Lab Fort Blk. % Rec.	110.46	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	36.71	ug/m3	
		Lab Fort Blk. % Rec.	106.94	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	59.29	ug/m3	
		Lab Fort Blk. % Rec.	111.18	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	36.25	ug/m3	
		Lab Fort Blk. % Rec.	97.69	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.16	ug/m3	



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

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 7 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95369					
	1,2,4-Trimethylbenzene	Lab Fort Blk. % Rec.	106.46	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.50	ug/m3	
		Lab Fort Blk. % Rec.	103.74	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	16.75	ug/m3	
		Lab Fort Blk. % Rec.	97.33	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	21.47	ug/m3	
		Lab Fort Blk. % Rec.	108.32	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	22.98	ug/m3	
		Lab Fort Blk. % Rec.	99.47	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	25.26	ug/m3	
		Lab Fort Blk. % Rec.	102.16	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	33.73	ug/m3	
		Lab Fort Blk. % Rec.	130.34	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	15.89	ug/m3	
		Lab Fort Blk. % Rec.	102.06	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	18.35	ug/m3	
		Lab Fort Blk. % Rec.	104.24	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	21.76	ug/m3	
		Lab Fort Blk. % Rec.	106.24	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	33.93	ug/m3	
		Lab Fort Blk. % Rec.	101.28	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	37.72	ug/m3	
		Lab Fort Blk. % Rec.	98.18	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	21.02	ug/m3	
		Lab Fort Blk. % Rec.	102.60	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.73	ug/m3	
		Lab Fort Blk. % Rec.	105.08	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	18.30	ug/m3	
		Lab Fort Blk. % Rec.	124.12	%	50-150



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 8 of 10

QC Batch Number: BATCH-16670

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95369					
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	9.30	ug/m3	
		Lab Fort Blk. % Rec.	108.10	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	11.90	ug/m3	
		Lab Fort Blk. % Rec.	107.64	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat # : LIMIT-25343

Page 9 of 10

NOTES:

QC Batch No. : BATCH-16670
Sample ID : LFBLANK-95369
Analysis : Benzyl Chloride

LABORATORY FORTIFIED BLANK 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.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/9/2010

Lims Bat #: LIMIT-25343

Page 10 of 10

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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

AIR SAMPLE CHAIN OF CUSTODY
RECORD
 Limit # 25343

39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Company Name: MACTFC Engineering
 Address: 107 Audubon Rd Suite 301
Wakefield, MA 01880
 Attention: Kelly Chatterton
 Project Location: Providence RE (Boxboro)
 Sampled By: MAM

Telephone: (781) 245-6606
 Project # 3650030114
 Client PO # 200914545

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #: _____
 Email: K.Chatterton@maclab.com
 Format: EXCEL PDF GIS KEY OTHER

Proposal Provided? (For Billing purposes)
 yes no

Field ID	Sample Description	Media	Lab #	Start		Total Minutes Sampled	Flow Rate M ³ /Min, or L/Min	Volume (Liters) or M ³	Matrix Code*	ANALYSIS REQUESTED	"Hg I n i t i a l	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. Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.
				Date Time	Stop Date Time							
IA-1-020510	S	01	2/5/10 7:24	2/5/10 7:54	30	0.2	6	IA	X	205-80-115	1493	4094
IA-2-020510	S	02	2/5/10 7:29	2/5/10 7:59	30	0.2	6	IA	X	205-40-2	1657	4057
IA-3-020510	S	03	2/5/10 7:26	2/5/10 7:56	30	0.2	6	IA	X	29-5-6	1089	4079
IA-4-020510	S	04	2/5/10 7:28	2/5/10 7:58	30	0.2	6	IA	X	30-80-7	1638	4060
Ew combined-020510	S	05	2/5/10 8:59	2/5/10 9:29	30	0.2	6	SG	X	30-60-6	1870	4016
AA-1-020510	S	06	2/5/10 10:01	2/5/10 10:31	30	0.2	6	MB	X	30-60-3	1655	4055

Laboratory Comments:

4 day TAT per Mike Murphy

CLIENT COMMENTS:

Ew combined-020510 was Sampled from
 Source Core 9

Relinquished by: (signature) <u>Mark Mays, MACTFC</u>	Date/Time: 2/5/10 12:00	Turnaround ** <input type="checkbox"/> 7-Day <input type="checkbox"/> 10-Day <input checked="" type="checkbox"/> Other	Regulations: <u>CT Target Indoor-A</u>	*Matrix Code: SG= SOIL GAS IA= INDOOR AIR AMB=AMBIENT SS = SUB SLAB D = DUP BL = BLANK O = other
Received by: (signature) <u>Kelly Chatterton</u>	Date/Time: 2-5-10 1200	RUSH * <input type="checkbox"/> *24-Hr <input type="checkbox"/> *48-Hr <input type="checkbox"/> *72-Hr <input type="checkbox"/> *4-Day *Approval Required	Data Enhancement/RCP? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Enhanced Data Package <input type="checkbox"/> Y <input checked="" type="checkbox"/> N (Surcharge Applies) Required Detection Limits: <u>CT Target Indoor</u> Other: _____	**Media Codes: S=Summa can TB=tetrad bag P=PUF T=tube F= filter C=cassette O = Other
Relinquished by: (signature) <u>Kelly Chatterton</u>	Date/Time: 2-5-10 1700			
Received by: (signature) <u>Samuel D. White</u>	Date/Time: 2/5/10			

* 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. AIHA, NELAC & WBE/DDE Certified



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39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: MACTEC Engineering
RECEIVED BY: JDP DATE: 2/5/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE: _____

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored: Air Lab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	6
Tedlar Bags	
Regulators	6
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments: _____



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

REPORT DATE 2/18/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25344
JOB NUMBER: 3650080114

PROJECT LOCATION: Providence, RI(Gorham)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
AA-1-021210	10B00033	AIR	Not Specified	to-15 ppbv	
AA-1-021210	10B00033	AIR	Not Specified	to-15 ug/m3	
EW-Combined-0212	10B00034	AIR	Not Specified	to-15 ppbv	
EW-Combined-0212	10B00034	AIR	Not Specified	to-15 ug/m3	
IA-1-021210	10B00029	AIR	Not Specified	to-15 ppbv	
IA-1-021210	10B00029	AIR	Not Specified	to-15 ug/m3	
IA-2-021210	10B00030	AIR	Not Specified	to-15 ppbv	
IA-2-021210	10B00030	AIR	Not Specified	to-15 ug/m3	
IA-3-021210	10B00031	AIR	Not Specified	to-15 ppbv	
IA-3-021210	10B00031	AIR	Not Specified	to-15 ug/m3	
IA-4-021210	10B00032	AIR	Not Specified	to-15 ppbv	
IA-4-021210	10B00032	AIR	Not Specified	to-15 ug/m3	

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:



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

REPORT DATE 2/18/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25344
JOB NUMBER: 3650080114

Comments :

LIMS BATCH NO. : LIMIT-25344

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133045 associated with samples 10B00029 - 10B00033 contained Methylene Chloride at 0.45 ppbv = 1.5 ug/m3 and Hexane at 0.04 ppbv = 0.17 ug/m3.

In method TO-15, method blank-133046 associated with samples 10B00029 - 10B00033 contained Methylene Chloride at 0.23 ppbv = 0.81 ug/m3.

In method TO-15, any reported result for Methylene Chloride in samples 10B00029 - 10B00033 is estimated and likely to be biased on the high side based on continuing calibration bias.

In method TO-15, any reported result for Methylene Chloride in samples 10B00029 - 10B00034 is likely to be biased on the high side based on laboratory fortified blank recovery bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include samples 10B00029-10B00034, blank-133045, and blank-133046 with their respective dilutions and compounds.

Method blank-133045 is associated with samples 10B00029 - 10B00033, and 20x dilution.
Method blank-133046 is associated with sample 10B00034.

Lfblank-95370 is associated with samples 10B00029 - 10B00033, and 20x dilution.
Lfblank-95371 is associated with sample 10B00034.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing AIHA and state certifications: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. # 652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).



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REPORT DATE 2/18/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-25344

JOB NUMBER: 3650080114

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.

2/18/10

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

SIGNATURE

DATE

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample

Kelly Chatterton
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 WAKEFIELD, MA 01880

2/18/2010
 Page 1 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : AA-1-021210

Sample ID : 10B00033 ‡Sampled : 2/12/2010
 Not Specified
 Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	2.1	0.05		02/16/10	WSD
Benzene	PPBv	0.20	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	0.55	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	ND	0.05		02/16/10	WSD
Chloroform	PPBv	ND	0.05		02/16/10	WSD
Chloromethane	PPBv	0.64	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.51	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	3.8	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/18/2010
 Page 2 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : AA-1-021210

Sample ID : 10B00033 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.26	0.05		02/16/10	WSD
2-Hexanone	PPBv	ND	0.05		02/16/10	WSD
Isopropanol	PPBv	0.60	0.05		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.49	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	0.08	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/16/10	WSD
Toluene	PPBv	0.26	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	0.06	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.28	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	0.11	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	5.0	0.12		02/16/10	WSD
Benzene	ug/m3	0.63	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	1.6	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/16/10	WSD

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‡ See attached chain-of-custody record for time sampled



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2/18/2010
 Page 3 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : AA-1-021210

Sample ID : 10B00033 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	ND	0.13		02/16/10	WSD
Chloroform	ug/m3	ND	0.24		02/16/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.5	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	7.2	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	0.91	0.18		02/16/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/16/10	WSD
Isopropanol	ug/m3	1.5	0.12		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	1.7	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	0.34	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/18/2010
 Page 4 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : AA-1-021210

Sample ID : 10B00033 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/16/10	WSD
Toluene	ug/m3	0.97	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	0.30	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	1.6	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.54	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	0.47	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 5 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : EW-Combined-021210

Sample ID : 10B00034 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.3	0.05		02/16/10	WSD
Benzene	PPBv	0.20	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	3.6	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	0.05	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	0.06	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	0.48	0.05		02/16/10	WSD
Chloroform	PPBv	0.10	0.05		02/16/10	WSD
Chloromethane	PPBv	ND	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.45	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	7.7	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	1.8	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	5.2	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	0.09	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	12	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/18/2010
 Page 6 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : EW-Combined-021210

Sample ID : 10B00034 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.21	0.05		02/16/10	WSD
2-Hexanone	PPBv	ND	0.05		02/16/10	WSD
Isopropanol	PPBv	0.41	0.05		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.76	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	0.07	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	0.71	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	9.6	0.05		02/16/10	WSD
Toluene	PPBv	0.96	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	27	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	11	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	5.1	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	0.11	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	13	0.12		02/16/10	WSD
Benzene	ug/m3	0.63	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	10	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	0.17	0.16		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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WAKEFIELD, MA 01880

2/18/2010
Page 7 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
Job Number: 3650080114

Field Sample # : EW-Combined-021210

Sample ID : 10B00034 ‡Sampled : 2/12/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.38	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	1.3	0.13		02/16/10	WSD
Chloroform	ug/m3	0.49	0.24		02/16/10	WSD
Chloromethane	ug/m3	ND	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.2	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	31	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	7.3	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	21	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	0.36	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	23	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	0.74	0.18		02/16/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/16/10	WSD
Isopropanol	ug/m3	1.0	0.12		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	2.6	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	0.28	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

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2/18/2010

Page 8 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)

LIMS-BAT #: LIMIT-25344

Date Received: 2/12/2010

Job Number: 3650080114

Field Sample # : EW-Combined-021210

Sample ID : 10B00034

‡Sampled : 2/12/2010

Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	4.8	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	28	0.15		02/16/10	WSD
Toluene	ug/m3	3.6	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	150	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	58	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	29	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.53	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	0.49	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 9 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-1-021210

Sample ID : 10B00029 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.1	0.05		02/16/10	WSD
Benzene	PPBv	0.20	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	0.39	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	ND	0.05		02/16/10	WSD
Chloroform	PPBv	0.09	0.05		02/16/10	WSD
Chloromethane	PPBv	0.63	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.52	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	10	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

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2/18/2010
 Page 10 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-1-021210

Sample ID : 10B00029 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.37	0.05		02/16/10	WSD
2-Hexanone	PPBv	ND	0.05		02/16/10	WSD
Isopropanol	PPBv	ND	0.10		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.54	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	0.05	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/16/10	WSD
Toluene	PPBv	0.18	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	0.06	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	0.06	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.26	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	7.3	0.12		02/16/10	WSD
Benzene	ug/m3	0.64	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	1.1	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/16/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 11 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-1-021210

Sample ID : 10B00029 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	ND	0.13		02/16/10	WSD
Chloroform	ug/m3	0.43	0.24		02/16/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	19	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	1.3	0.18		02/16/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/16/10	WSD
Isopropanol	ug/m3	ND	0.25		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	1.9	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	0.22	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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Purchase Order No.: 206914545

2/18/2010
Page 12 of 25

Project Location: Providence, RI(Gorham)
Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
Job Number: 3650080114

Field Sample # : IA-1-021210

Sample ID : 10B00029 ‡Sampled : 2/12/2010
Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/16/10	WSD
Toluene	ug/m3	0.69	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	0.30	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	0.31	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	1.5	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.63	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 13 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-2-021210

Sample ID : 10B00030 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	1.3	0.05		02/16/10	WSD
Benzene	PPBv	0.21	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	0.15	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	ND	0.05		02/16/10	WSD
Chloroform	PPBv	0.08	0.05		02/16/10	WSD
Chloromethane	PPBv	0.63	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.52	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	8.9	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/18/2010
 Page 14 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-2-021210

Sample ID : 10B00030 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.39	0.05		02/16/10	WSD
2-Hexanone	PPBv	ND	0.05		02/16/10	WSD
Isopropanol	PPBv	ND	0.10		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.54	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/16/10	WSD
Toluene	PPBv	0.17	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.26	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	3.1	0.12		02/16/10	WSD
Benzene	ug/m3	0.67	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	0.44	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/16/10	WSD

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‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/18/2010
 Page 15 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-2-021210

Sample ID : 10B00030 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	ND	0.13		02/16/10	WSD
Chloroform	ug/m3	0.40	0.24		02/16/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	17	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	1.4	0.18		02/16/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/16/10	WSD
Isopropanol	ug/m3	ND	0.25		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	1.9	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 16 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-2-021210

Sample ID : 10B00030 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/16/10	WSD
Toluene	ug/m3	0.64	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	1.4	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.61	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 17 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-3-021210

Sample ID : 10B00031 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	2.8	0.05		02/16/10	WSD
Benzene	PPBv	0.21	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	0.39	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	ND	0.05		02/16/10	WSD
Chloroform	PPBv	0.10	0.05		02/16/10	WSD
Chloromethane	PPBv	0.62	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.51	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	9.3	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

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2/18/2010
 Page 18 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-3-021210

Sample ID : 10B00031 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.29	0.05		02/16/10	WSD
2-Hexanone	PPBv	0.05	0.05		02/16/10	WSD
Isopropanol	PPBv	ND	0.10		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.65	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/16/10	WSD
Toluene	PPBv	0.16	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	0.05	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.25	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	6.7	0.12		02/16/10	WSD
Benzene	ug/m3	0.67	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	1.2	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/16/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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2/18/2010
 Page 19 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-3-021210

Sample ID : 10B00031 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	ND	0.13		02/16/10	WSD
Chloroform	ug/m3	0.48	0.24		02/16/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.5	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	17	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	1.0	0.18		02/16/10	WSD
2-Hexanone	ug/m3	0.22	0.20		02/16/10	WSD
Isopropanol	ug/m3	ND	0.25		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	2.3	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/18/2010
 Page 20 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-3-021210

Sample ID : 10B00031 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/16/10	WSD
Toluene	ug/m3	0.61	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	0.29	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	1.4	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.57	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/18/2010
 Page 21 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-4-021210

Sample ID : 10B00032 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	2.5	0.05		02/16/10	WSD
Benzene	PPBv	0.21	0.05		02/16/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/16/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/16/10	WSD
Bromoform	PPBv	ND	0.05		02/16/10	WSD
Bromomethane	PPBv	ND	0.05		02/16/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/16/10	WSD
2-Butanone (MEK)	PPBv	0.41	0.05		02/16/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/16/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/16/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/16/10	WSD
Chloroethane	PPBv	ND	0.05		02/16/10	WSD
Chloroform	PPBv	0.08	0.05		02/16/10	WSD
Chloromethane	PPBv	0.61	0.05		02/16/10	WSD
Cyclohexane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
Dichlorodifluoromethane	PPBv	0.52	0.05		02/16/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/16/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/16/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/16/10	WSD
Ethanol	PPBv	8.9	0.05		02/16/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/16/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/16/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/16/10	WSD
n-Heptane	PPBv	ND	0.05		02/16/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/18/2010
 Page 22 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-4-021210

Sample ID : 10B00032 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/16/10	WSD
Hexane	PPBv	0.36	0.05		02/16/10	WSD
2-Hexanone	PPBv	ND	0.05		02/16/10	WSD
Isopropanol	PPBv	ND	0.10		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/16/10	WSD
Methylene Chloride	PPBv	0.56	0.05		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/16/10	WSD
Propene	PPBv	ND	0.20		02/16/10	WSD
Styrene	PPBv	ND	0.05		02/16/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/16/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/16/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/16/10	WSD
Toluene	PPBv	0.17	0.05		02/16/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/16/10	WSD
1,1,1-Trichloroethane	PPBv	0.05	0.05		02/16/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/16/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/16/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.26	0.05		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.05		02/16/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/16/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/16/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/16/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/16/10	WSD
o-Xylene	PPBv	ND	0.05		02/16/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	5.9	0.12		02/16/10	WSD
Benzene	ug/m3	0.66	0.16		02/16/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/16/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/16/10	WSD
Bromoform	ug/m3	ND	0.51		02/16/10	WSD
Bromomethane	ug/m3	ND	0.19		02/16/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/16/10	WSD
2-Butanone (MEK)	ug/m3	1.2	0.15		02/16/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/16/10	WSD

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 WAKEFIELD, MA 01880

2/18/2010
 Page 23 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-4-021210

Sample ID : 10B00032 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/16/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/16/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/16/10	WSD
Chloroethane	ug/m3	ND	0.13		02/16/10	WSD
Chloroform	ug/m3	0.39	0.24		02/16/10	WSD
Chloromethane	ug/m3	1.3	0.10		02/16/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/16/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/16/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/16/10	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.25		02/16/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/16/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/16/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/16/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/16/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/16/10	WSD
Ethanol	ug/m3	17	0.09		02/16/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/16/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/16/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/16/10	WSD
n-Heptane	ug/m3	ND	0.20		02/16/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/16/10	WSD
Hexane	ug/m3	1.3	0.18		02/16/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/16/10	WSD
Isopropanol	ug/m3	ND	0.25		02/16/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/16/10	WSD
Methylene Chloride	ug/m3	1.9	0.17		02/16/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/16/10	WSD
Propene	ug/m3	ND	0.35		02/16/10	WSD
Styrene	ug/m3	ND	0.21		02/16/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/18/2010
 Page 24 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI(Gorham)
 Date Received: 2/12/2010

LIMS-BAT #: LIMIT-25344
 Job Number: 3650080114

Field Sample # : IA-4-021210

Sample ID : 10B00032 ‡Sampled : 2/12/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/16/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/16/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/16/10	WSD
Toluene	ug/m3	0.63	0.19		02/16/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/16/10	WSD
1,1,1-Trichloroethane	ug/m3	0.29	0.27		02/16/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/16/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/16/10	WSD
Trichlorofluoromethane	ug/m3	1.4	0.28		02/16/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.58	0.38		02/16/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/16/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/16/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/16/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/16/10	WSD
o-Xylene	ug/m3	ND	0.22		02/16/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

Kelly Chatterton

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Project Location: Providence, RI(Gorham)

Date Received: 2/12/2010

Purchase Order No.: 206914545

2/18/2010

Page 25 of 25

LIMS-BAT #: LIMIT-25344

Job Number: 3650080114

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 1 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00029	4-Bromofluorobenzene	Surrogate Recovery	108.62	%	70-130
10B00030	4-Bromofluorobenzene	Surrogate Recovery	108.75	%	70-130
10B00031	4-Bromofluorobenzene	Surrogate Recovery	108.75	%	70-130
10B00032	4-Bromofluorobenzene	Surrogate Recovery	109.50	%	70-130
10B00033	4-Bromofluorobenzene	Surrogate Recovery	108.62	%	70-130
10B00034	4-Bromofluorobenzene	Surrogate Recovery	106.50	%	70-130
BLANK-133045	Acetone	Blank	<0.34	ug/m3	
	Benzene	Blank	<0.12	ug/m3	
	Carbon Tetrachloride	Blank	<0.22	ug/m3	
	Chloroform	Blank	<0.17	ug/m3	
	1,2-Dichloroethane	Blank	<0.14	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.21	ug/m3	
	Ethyl Acetate	Blank	<0.13	ug/m3	
	Ethylbenzene	Blank	<0.16	ug/m3	
	Hexane	Blank	0.17	ug/m3	
	Isopropanol	Blank	<0.18	ug/m3	
	2-Butanone (MEK)	Blank	<0.21	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.14	ug/m3	
	Styrene	Blank	<0.15	ug/m3	
	Tetrachloroethylene	Blank	<0.24	ug/m3	
	Toluene	Blank	<0.14	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.19	ug/m3	
	Trichloroethylene	Blank	<0.19	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.27	ug/m3	
	Trichlorofluoromethane	Blank	<0.20	ug/m3	
	o-Xylene	Blank	<0.16	ug/m3	
	m/p-Xylene	Blank	<0.31	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,1-Dichloroethane	Blank	<0.14	ug/m3	
	1,1-Dichloroethylene	Blank	<0.14	ug/m3	
	Ethanol	Blank	<0.27	ug/m3	
	4-Ethyl Toluene	Blank	<0.18	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.13	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	Vinyl Chloride	Blank	<0.10	ug/m3	
	Methylene Chloride	Blank	1.57	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 2 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133045					
	Chlorobenzene	Blank	<0.17	ug/m3	
	Chloromethane	Blank	<0.07	ug/m3	
	Bromomethane	Blank	<0.14	ug/m3	
	Chloroethane	Blank	<0.10	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	Chlorodibromomethane	Blank	<0.31	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.19	ug/m3	
	Bromoform	Blank	<0.36	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.24	ug/m3	
	Hexachlorobutadiene	Blank	<0.38	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.26	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.18	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.18	ug/m3	
	Cyclohexane	Blank	<0.12	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	1,2-Dichloropropane	Blank	<0.17	ug/m3	
	Dichlorodifluoromethane	Blank	<0.18	ug/m3	
	Benzyl Chloride	Blank	<0.19	ug/m3	
	Carbon Disulfide	Blank	<0.12	ug/m3	
	Vinyl Acetate	Blank	<0.50	ug/m3	
	2-Hexanone	Blank	<0.14	ug/m3	
	Bromodichloromethane	Blank	<0.24	ug/m3	
	1,2-Dibromoethane	Blank	<0.27	ug/m3	
	n-Heptane	Blank	<0.14	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.25	ug/m3	
	Tetrahydrofuran	Blank	<0.11	ug/m3	
	Propene	Blank	<0.25	ug/m3	
	1,3-Butadiene	Blank	<0.16	ug/m3	
BLANK-133046					
	Acetone	Blank	<0.34	ug/m3	
	Benzene	Blank	<0.12	ug/m3	
	Carbon Tetrachloride	Blank	<0.22	ug/m3	
	Chloroform	Blank	<0.17	ug/m3	
	1,2-Dichloroethane	Blank	<0.14	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.21	ug/m3	
	Ethyl Acetate	Blank	<0.13	ug/m3	
	Ethylbenzene	Blank	<0.16	ug/m3	
	Hexane	Blank	<0.13	ug/m3	
	Isopropanol	Blank	<0.18	ug/m3	
	2-Butanone (MEK)	Blank	<0.21	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.14	ug/m3	
	Styrene	Blank	<0.15	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 3 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133046					
	Tetrachloroethylene	Blank	<0.24	ug/m3	
	Toluene	Blank	<0.14	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.19	ug/m3	
	Trichloroethylene	Blank	<0.19	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.27	ug/m3	
	Trichlorofluoromethane	Blank	<0.20	ug/m3	
	o-Xylene	Blank	<0.16	ug/m3	
	m/p-Xylene	Blank	<0.31	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,1-Dichloroethane	Blank	<0.14	ug/m3	
	1,1-Dichloroethylene	Blank	<0.14	ug/m3	
	Ethanol	Blank	<0.27	ug/m3	
	4-Ethyl Toluene	Blank	<0.18	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.13	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	Vinyl Chloride	Blank	<0.10	ug/m3	
	Methylene Chloride	Blank	0.81	ug/m3	
	Chlorobenzene	Blank	<0.17	ug/m3	
	Chloromethane	Blank	<0.07	ug/m3	
	Bromomethane	Blank	<0.14	ug/m3	
	Chloroethane	Blank	<0.10	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	Chlorodibromomethane	Blank	<0.31	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.19	ug/m3	
	Bromoform	Blank	<0.36	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.24	ug/m3	
	Hexachlorobutadiene	Blank	<0.38	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.26	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.18	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.18	ug/m3	
	Cyclohexane	Blank	<0.12	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	1,2-Dichloropropane	Blank	<0.17	ug/m3	
	Dichlorodifluoromethane	Blank	<0.18	ug/m3	
	Benzyl Chloride	Blank	<0.19	ug/m3	
	Carbon Disulfide	Blank	<0.12	ug/m3	
	Vinyl Acetate	Blank	<0.50	ug/m3	
	2-Hexanone	Blank	<0.14	ug/m3	
	Bromodichloromethane	Blank	<0.24	ug/m3	
	1,2-Dibromoethane	Blank	<0.27	ug/m3	
	n-Heptane	Blank	<0.14	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 4 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133046					
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.25	ug/m3	
	Tetrahydrofuran	Blank	<0.11	ug/m3	
	Propene	Blank	<0.25	ug/m3	
	1,3-Butadiene	Blank	<0.16	ug/m3	
LFBLANK-95370					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	14.16	ug/m3	
		Lab Fort Blk. % Rec.	119.24	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	15.40	ug/m3	
		Lab Fort Blk. % Rec.	96.56	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	26.28	ug/m3	
		Lab Fort Blk. % Rec.	83.58	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	24.25	ug/m3	
		Lab Fort Blk. % Rec.	99.65	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.08	ug/m3	
		Lab Fort Blk. % Rec.	99.20	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.38	ug/m3	
		Lab Fort Blk. % Rec.	94.42	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	22.53	ug/m3	
		Lab Fort Blk. % Rec.	125.06	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.92	ug/m3	
		Lab Fort Blk. % Rec.	105.78	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	18.69	ug/m3	
		Lab Fort Blk. % Rec.	106.10	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	15.15	ug/m3	
		Lab Fort Blk. % Rec.	123.34	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.73	ug/m3	
		Lab Fort Blk. % Rec.	93.16	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	24.26	ug/m3	
		Lab Fort Blk. % Rec.	118.48	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	22.45	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 5 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95370	Styrene	Lab Fort Blk. % Rec.	105.56	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	29.99	ug/m3	
		Lab Fort Blk. % Rec.	88.45	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	18.75	ug/m3	
		Lab Fort Blk. % Rec.	99.68	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.50	ug/m3	
		Lab Fort Blk. % Rec.	89.82	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	26.01	ug/m3	
		Lab Fort Blk. % Rec.	96.81	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	36.78	ug/m3	
		Lab Fort Blk. % Rec.	96.00	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	29.13	ug/m3	
		Lab Fort Blk. % Rec.	103.70	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	24.08	ug/m3	
		Lab Fort Blk. % Rec.	110.92	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	45.61	ug/m3	
		Lab Fort Blk. % Rec.	105.02	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.78	ug/m3	
		Lab Fort Blk. % Rec.	92.42	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.58	ug/m3	
		Lab Fort Blk. % Rec.	95.10	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	19.68	ug/m3	
		Lab Fort Blk. % Rec.	97.22	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	20.94	ug/m3	
		Lab Fort Blk. % Rec.	105.58	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	13.93	ug/m3	
		Lab Fort Blk. % Rec.	147.90	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.28	ug/m3	
		Lab Fort Blk. % Rec.	106.94	%	50-150



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 6 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95370					
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	18.70	ug/m3	
		Lab Fort Blk. % Rec.	103.74	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.48	ug/m3	
		Lab Fort Blk. % Rec.	98.28	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	14.52	ug/m3	
		Lab Fort Blk. % Rec.	113.64	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	24.01	ug/m3	
		Lab Fort Blk. % Rec.	138.34	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	22.07	ug/m3	
		Lab Fort Blk. % Rec.	95.85	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	11.33	ug/m3	
		Lab Fort Blk. % Rec.	109.74	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	20.82	ug/m3	
		Lab Fort Blk. % Rec.	107.32	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.82	ug/m3	
		Lab Fort Blk. % Rec.	119.94	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.72	ug/m3	
		Lab Fort Blk. % Rec.	108.94	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	24.33	ug/m3	
		Lab Fort Blk. % Rec.	107.20	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	41.20	ug/m3	
		Lab Fort Blk. % Rec.	96.74	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.48	ug/m3	
		Lab Fort Blk. % Rec.	97.08	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	52.52	ug/m3	
		Lab Fort Blk. % Rec.	101.60	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	40.09	ug/m3	
		Lab Fort Blk. % Rec.	116.78	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 7 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95370	Hexachlorobutadiene	Lab Fort Blk. Found	58.97	ug/m3	
		Lab Fort Blk. % Rec.	110.58	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	34.36	ug/m3	
		Lab Fort Blk. % Rec.	92.60	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	26.15	ug/m3	
		Lab Fort Blk. % Rec.	106.40	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.69	ug/m3	
		Lab Fort Blk. % Rec.	104.52	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	18.82	ug/m3	
		Lab Fort Blk. % Rec.	109.37	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.62	ug/m3	
		Lab Fort Blk. % Rec.	98.97	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	23.69	ug/m3	
		Lab Fort Blk. % Rec.	102.56	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	24.49	ug/m3	
		Lab Fort Blk. % Rec.	99.05	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	30.15	ug/m3	
		Lab Fort Blk. % Rec.	116.48	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	17.16	ug/m3	
		Lab Fort Blk. % Rec.	110.26	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	16.02	ug/m3	
		Lab Fort Blk. % Rec.	91.00	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	23.21	ug/m3	
		Lab Fort Blk. % Rec.	113.36	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	35.85	ug/m3	
		Lab Fort Blk. % Rec.	107.02	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	37.98	ug/m3	
		Lab Fort Blk. % Rec.	98.86	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	22.41	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 8 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95370	n-Heptane	Lab Fort Blk. % Rec.	109.40	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.85	ug/m3	
		Lab Fort Blk. % Rec.	105.44	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	16.95	ug/m3	
		Lab Fort Blk. % Rec.	115.00	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.85	ug/m3	
		Lab Fort Blk. % Rec.	102.86	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	12.76	ug/m3	
		Lab Fort Blk. % Rec.	115.44	%	70-130
LFBLANK-95371	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	13.52	ug/m3	
		Lab Fort Blk. % Rec.	113.88	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	14.46	ug/m3	
		Lab Fort Blk. % Rec.	90.65	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	25.19	ug/m3	
		Lab Fort Blk. % Rec.	80.12	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	22.99	ug/m3	
		Lab Fort Blk. % Rec.	94.48	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.86	ug/m3	
		Lab Fort Blk. % Rec.	93.18	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.51	ug/m3	
		Lab Fort Blk. % Rec.	91.54	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.74	ug/m3	
		Lab Fort Blk. % Rec.	115.16	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	22.02	ug/m3	
		Lab Fort Blk. % Rec.	101.62	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	17.57	ug/m3	
		Lab Fort Blk. % Rec.	99.72	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	14.62	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 9 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95371	Isopropanol	Lab Fort Blk. % Rec.	119.02	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	12.68	ug/m3	
		Lab Fort Blk. % Rec.	86.04	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	22.95	ug/m3	
		Lab Fort Blk. % Rec.	112.06	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	21.83	ug/m3	
		Lab Fort Blk. % Rec.	102.68	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	28.97	ug/m3	
		Lab Fort Blk. % Rec.	85.45	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	18.08	ug/m3	
		Lab Fort Blk. % Rec.	96.10	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	23.17	ug/m3	
		Lab Fort Blk. % Rec.	84.94	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	24.56	ug/m3	
		Lab Fort Blk. % Rec.	91.39	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	35.31	ug/m3	
		Lab Fort Blk. % Rec.	92.16	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	28.53	ug/m3	
		Lab Fort Blk. % Rec.	101.56	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	23.23	ug/m3	
		Lab Fort Blk. % Rec.	106.98	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	44.38	ug/m3	
		Lab Fort Blk. % Rec.	102.19	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	26.96	ug/m3	
		Lab Fort Blk. % Rec.	89.70	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.65	ug/m3	
		Lab Fort Blk. % Rec.	92.00	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.30	ug/m3	
		Lab Fort Blk. % Rec.	90.42	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 10 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95371					
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	20.17	ug/m3	
		Lab Fort Blk. % Rec.	101.72	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	12.89	ug/m3	
		Lab Fort Blk. % Rec.	136.90	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.40	ug/m3	
		Lab Fort Blk. % Rec.	103.36	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	17.08	ug/m3	
		Lab Fort Blk. % Rec.	94.79	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.07	ug/m3	
		Lab Fort Blk. % Rec.	91.17	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	13.83	ug/m3	
		Lab Fort Blk. % Rec.	108.22	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	23.61	ug/m3	
		Lab Fort Blk. % Rec.	136.04	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	21.12	ug/m3	
		Lab Fort Blk. % Rec.	91.73	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	10.80	ug/m3	
		Lab Fort Blk. % Rec.	104.60	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.70	ug/m3	
		Lab Fort Blk. % Rec.	101.56	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	15.11	ug/m3	
		Lab Fort Blk. % Rec.	114.61	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	23.22	ug/m3	
		Lab Fort Blk. % Rec.	102.30	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	23.11	ug/m3	
		Lab Fort Blk. % Rec.	101.84	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	40.06	ug/m3	
		Lab Fort Blk. % Rec.	94.05	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 11 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95371					
	1,1,2-Trichloroethane	Lab Fort Blk. Found	25.55	ug/m3	
		Lab Fort Blk. % Rec.	93.66	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	51.31	ug/m3	
		Lab Fort Blk. % Rec.	99.25	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	39.20	ug/m3	
		Lab Fort Blk. % Rec.	114.18	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	57.65	ug/m3	
		Lab Fort Blk. % Rec.	108.10	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	33.22	ug/m3	
		Lab Fort Blk. % Rec.	89.53	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.42	ug/m3	
		Lab Fort Blk. % Rec.	103.42	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.84	ug/m3	
		Lab Fort Blk. % Rec.	101.06	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	17.78	ug/m3	
		Lab Fort Blk. % Rec.	103.34	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	18.27	ug/m3	
		Lab Fort Blk. % Rec.	92.20	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	22.14	ug/m3	
		Lab Fort Blk. % Rec.	95.85	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	23.54	ug/m3	
		Lab Fort Blk. % Rec.	95.23	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	29.47	ug/m3	
		Lab Fort Blk. % Rec.	113.88	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	16.58	ug/m3	
		Lab Fort Blk. % Rec.	106.50	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	15.04	ug/m3	
		Lab Fort Blk. % Rec.	85.48	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	22.43	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 12 of 14

QC Batch Number: BATCH-16671

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95371					
	2-Hexanone	Lab Fort Blk. % Rec.	109.52	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	33.93	ug/m3	
	1,2-Dibromoethane	Lab Fort Blk. % Rec.	101.28	%	70-130
		Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	36.59	ug/m3	
	n-Heptane	Lab Fort Blk. % Rec.	95.24	%	70-130
		Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	20.91	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blk. % Rec.	102.06	%	50-150
		Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	34.66	ug/m3	
	Tetrahydrofuran	Lab Fort Blk. % Rec.	99.17	%	70-130
		Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.61	ug/m3	
	Propene	Lab Fort Blk. % Rec.	105.92	%	50-150
		Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.22	ug/m3	
	1,3-Butadiene	Lab Fort Blk. % Rec.	95.62	%	50-150
		Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	11.89	ug/m3	
		Lab Fort Blk. % Rec.	107.58	%	70-130



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/18/2010

Lims Bat # : LIMIT-25344

Page 13 of 14

NOTES:

QC Batch No. : BATCH-16671
Sample ID : LFBLANK-95370
Analysis : Methylene Chloride

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : BATCH-16671
Sample ID : LFBLANK-95371
Analysis : Methylene Chloride

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 2/18/2010 Lims Bat #: LIMIT-25344 Page 14 of 14

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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

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Company Name: MACTEC Engineering
Address: 167 Audubon Rd, Suite 301
Wakefield, MA 01830

Attention: Kelly Chaffertson

Project Location: Providence, RI (Lebanon)
Sampled By: MAM

Proposal Provided? (For Billing purposes)

AIR SAMPLE CHAIN OF CUSTODY RECORD

Limit # 25341

Telephone: (781) 245-6606
Project # 3650080111
Client PO # 2009115415

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

Page 1 of 1

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
Fax #: _____
Email: K5.chaffertson@maectec.com *From RFP*
Format: EXCEL PDF GIS KEY OTHER _____

yes no proposal date

IDB	Field ID	Sample Description	Media	Lab #	Date	Time	Start	Stop	Total	Flow Rate	Volume	Matrix	Code*	ANALYSIS REQUESTED		Summa Canister ID	Flow Controller ID
														Minutes Sampled	L/Mln		
	00029	IA-1-021210	S	01	2/12/10	8:00	30	0.2	6	6	IA	X					
	00030	IA-2-021210	S	02	2/12/10	8:12	30	0.2	6	6	IA	X					
	00031	IA-3-021210	S	03	2/12/10	8:08	30	0.2	6	6	IA	X					
	00032	IA-4-021210	S	04	2/12/10	8:10	30	0.2	6	6	IA	X					
	00033	AA-1-021210	S	05	2/12/10	9:21	30	0.2	6	6	AMB	X					
	00034	EW combined-021210	S	06	2/12/10	9:59	30	0.2	6	6	SL	X					

Laboratory Comments:

CLIENT COMMENTS:

EW - combined - 021210 was sampled from source area

Relinquished by: (signature) MAM Date/Time: 2/12/10 1130

Received by: (signature) [Signature] Date/Time: 2/12/10 1132

Relinquished by: (signature) [Signature] Date/Time: 2/12/10 1800

Received by: (signature) [Signature] Date/Time: 2/12/10 1800

Turnaround **
 7-Day
 10-Day
 Other 5
 RUSH *
 *24-Hr *48-Hr
 *72-Hr *4-Day
 Approval Required

Regulations: CT Target Indoor Air
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 Required Detection Limits: CT Target Indoor
 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
 TB=teflar 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. AIHA, NELAC & WBE/DBE Certified



www.contestlabs.com

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East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: MACTEC
RECEIVED BY: JDP DATE: 2/12/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain:

- 3. All Samples in good condition? YES NO

If not, explain:

4. Are there any on hold samples? YES NO STORED WHERE:

5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored:

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	6
Tedlar Bags	
Regulators	6
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:



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

REPORT DATE 2/25/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25346
JOB NUMBER: 3650080114

PROJECT LOCATION: Providence, RI (Gorham)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
AA-1-021910	10B00041	AIR	Not Specified	to-15 ppbv	
AA-1-021910	10B00041	AIR	Not Specified	to-15 ug/m3	
EW-Combined-0219	10B00040	AIR	Not Specified	to-15 ppbv	
EW-Combined-0219	10B00040	AIR	Not Specified	to-15 ug/m3	
IA-1-021910	10B00036	AIR	Not Specified	to-15 ppbv	
IA-1-021910	10B00036	AIR	Not Specified	to-15 ug/m3	
IA-2-021910	10B00037	AIR	Not Specified	to-15 ppbv	
IA-2-021910	10B00037	AIR	Not Specified	to-15 ug/m3	
IA-3-021910	10B00038	AIR	Not Specified	to-15 ppbv	
IA-3-021910	10B00038	AIR	Not Specified	to-15 ug/m3	
IA-4-021910	10B00039	AIR	Not Specified	to-15 ppbv	
IA-4-021910	10B00039	AIR	Not Specified	to-15 ug/m3	

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:
[Signature]



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

REPORT DATE 2/25/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-25346
JOB NUMBER: 3650080114

Comments :

LIMS BATCH NO. : LIMIT-25346

CASE NARRATIVE SUMMARY

In method TO-15, method blank-133047 associated with samples 10B00036 - 10B00039 and 10B00041 contained Acetone at 0.16 ppbv = 0.38 ug/m3 and 2-Butanone(MEK) at 0.08 ppbv = 0.23 ug/m3.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Table with 3 columns: Sample, Dilution, Compound(s). Rows include samples 10B00036-10B00041, blank-133047, and blank-133048 with their respective dilutions and compounds.

Method blank-133047 is associated with samples 10B00036 - 10B00039, 10B00041 and 20x dilution.
Method blank-133048 is associated with sample 10B00040.

Lfblank-95372 is associated with samples 10B00036 - 10B00039, 10B00041 and 20x dilution.
Lfblank-95373 is associated with samples 10B00040.

In method TO-15, for Hexachlorobutadiene in samples 10B00036 - 10B00041, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

In method TO-15, data is not affected by laboratory fortified blank recovery outliers for Hexachlorobutadiene in samples 10B00036 - 10B00041 since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

Table listing various accreditations: AIHA 100033, MASSACHUSETTS MA0100, CONNECTICUT PH-0567, NEW YORK ELAP/NELAP 10899, AIHA ELLAP (LEAD) 100033, NEW HAMPSHIRE NELAP 2516, VERMONT DOH (LEAD) No. LL015036, RHODE ISLAND (LIC. No. 112), NORTH CAROLINA CERT. # 652, NEW JERSEY NELAP NJ MA007 (AIR), FLORIDA DOH E871027 (AIR).

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.



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REPORT DATE 2/25/2010

MACTEC ENGINEERING & CONSULTING - MA
107 AUDUBON ROAD, BLDG. 2, SUITE 301
WAKEFIELD, MA 01880
ATTN: Kelly Chatterton

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: 206914545

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-25346

JOB NUMBER: 3650080114

2/25/10

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Laboratory Director

SIGNATURE

DATE

Chris Hall
Project Chemist Supervisor

Daren Damboragian
Laboratory Manager

* See end of data tabulation for notes and comments pertaining to this sample

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/25/2010
 Page 1 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : AA-1-021910

Sample ID : 10B00041 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	1.5	0.05		02/22/10	WSD
Benzene	PPBv	0.13	0.05		02/22/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/22/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/22/10	WSD
Bromoform	PPBv	ND	0.05		02/22/10	WSD
Bromomethane	PPBv	ND	0.05		02/22/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/22/10	WSD
2-Butanone (MEK)	PPBv	0.30	0.05		02/22/10	WSD
Carbon Disulfide	PPBv	0.14	0.05		02/22/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/22/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/22/10	WSD
Chloroethane	PPBv	ND	0.05		02/22/10	WSD
Chloroform	PPBv	ND	0.05		02/22/10	WSD
Chloromethane	PPBv	0.55	0.05		02/22/10	WSD
Cyclohexane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Dichlorodifluoromethane	PPBv	0.59	0.05		02/22/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/22/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/22/10	WSD
Ethanol	PPBv	0.65	0.05		02/22/10	WSD
Ethyl Acetate	PPBv	0.31	0.05		02/22/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/22/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/22/10	WSD
n-Heptane	PPBv	ND	0.05		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/25/2010
 Page 2 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : AA-1-021910

Sample ID : 10B00041 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/22/10	WSD
Hexane	PPBv	0.07	0.05		02/22/10	WSD
2-Hexanone	PPBv	ND	0.05		02/22/10	WSD
Isopropanol	PPBv	0.32	0.05		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/22/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/22/10	WSD
Propene	PPBv	ND	0.20		02/22/10	WSD
Styrene	PPBv	ND	0.05		02/22/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/22/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/22/10	WSD
Tetrahydrofuran	PPBv	0.07	0.05		02/22/10	WSD
Toluene	PPBv	0.12	0.05		02/22/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/22/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.26	0.05		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/22/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/22/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/22/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/22/10	WSD
o-Xylene	PPBv	ND	0.05		02/22/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	3.7	0.12		02/22/10	WSD
Benzene	ug/m3	0.41	0.16		02/22/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/22/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/22/10	WSD
Bromoform	ug/m3	ND	0.51		02/22/10	WSD
Bromomethane	ug/m3	ND	0.19		02/22/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/22/10	WSD
2-Butanone (MEK)	ug/m3	0.88	0.15		02/22/10	WSD
Carbon Disulfide	ug/m3	0.44	0.16		02/22/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

2/25/2010
 Page 3 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : AA-1-021910

Sample ID : 10B00041 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.43	0.31		02/22/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/22/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/22/10	WSD
Chloroethane	ug/m3	ND	0.13		02/22/10	WSD
Chloroform	ug/m3	ND	0.24		02/22/10	WSD
Chloromethane	ug/m3	1.1	0.10		02/22/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/22/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/22/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
Dichlorodifluoromethane	ug/m3	2.9	0.25		02/22/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/22/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/22/10	WSD
Ethanol	ug/m3	1.2	0.09		02/22/10	WSD
Ethyl Acetate	ug/m3	1.1	0.18		02/22/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/22/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/22/10	WSD
n-Heptane	ug/m3	ND	0.20		02/22/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/22/10	WSD
Hexane	ug/m3	0.24	0.18		02/22/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/22/10	WSD
Isopropanol	ug/m3	0.80	0.12		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/22/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/22/10	WSD
Propene	ug/m3	ND	0.35		02/22/10	WSD
Styrene	ug/m3	ND	0.21		02/22/10	WSD

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 WAKEFIELD, MA 01880

2/25/2010
 Page 4 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : AA-1-021910

Sample ID : 10B00041 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/22/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/22/10	WSD
Tetrahydrofuran	ug/m3	0.19	0.15		02/22/10	WSD
Toluene	ug/m3	0.46	0.19		02/22/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/22/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/22/10	WSD
Trichlorofluoromethane	ug/m3	1.5	0.28		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.54	0.38		02/22/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/22/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/22/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/22/10	WSD
o-Xylene	ug/m3	ND	0.22		02/22/10	WSD

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2/25/2010
Page 5 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
Job Number: 3650080114

Field Sample #: EW-Combined-021910

Sample ID: 10B00040 ‡Sampled: 2/19/2010
Not Specified
Sample Matrix: AIR Sample Medium: SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	ND	0.40		02/23/10	WSD
Benzene	PPBv	0.13	0.10		02/23/10	WSD
Benzyl Chloride	PPBv	ND	0.10		02/23/10	WSD
Bromodichloromethane	PPBv	ND	0.10		02/23/10	WSD
Bromoform	PPBv	ND	0.10		02/23/10	WSD
Bromomethane	PPBv	ND	0.10		02/23/10	WSD
1,3-Butadiene	PPBv	ND	0.20		02/23/10	WSD
2-Butanone (MEK)	PPBv	3.1	0.10		02/23/10	WSD
Carbon Disulfide	PPBv	1.2	0.10		02/23/10	WSD
Carbon Tetrachloride	PPBv	ND	0.10		02/23/10	WSD
Chlorobenzene	PPBv	ND	0.10		02/23/10	WSD
Chlorodibromomethane	PPBv	ND	0.10		02/23/10	WSD
Chloroethane	PPBv	3.8	0.10		02/23/10	WSD
Chloroform	PPBv	1.3	0.10		02/23/10	WSD
Chloromethane	PPBv	ND	0.10		02/23/10	WSD
Cyclohexane	PPBv	ND	0.10		02/23/10	WSD
1,2-Dibromoethane	PPBv	ND	0.10		02/23/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.10		02/23/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.10		02/23/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.10		02/23/10	WSD
Dichlorodifluoromethane	PPBv	0.55	0.10		02/23/10	WSD
1,1-Dichloroethane	PPBv	78	0.10		02/23/10	WSD
1,2-Dichloroethane	PPBv	ND	0.10		02/23/10	WSD
1,1-Dichloroethylene	PPBv	16	0.10		02/23/10	WSD
cis-1,2-Dichloroethylene	PPBv	62	0.10		02/23/10	WSD
t-1,2-Dichloroethylene	PPBv	1.0	0.10		02/23/10	WSD
1,2-Dichloropropane	PPBv	ND	0.10		02/23/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.10		02/23/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.10		02/23/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.10		02/23/10	WSD
Ethanol	PPBv	33	0.10		02/23/10	WSD
Ethyl Acetate	PPBv	ND	0.10		02/23/10	WSD
Ethylbenzene	PPBv	ND	0.10		02/23/10	WSD
4-Ethyl Toluene	PPBv	ND	0.10		02/23/10	WSD
n-Heptane	PPBv	ND	0.10		02/23/10	WSD

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2/25/2010
 Page 6 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : EW-Combined-021910

Sample ID : 10B00040 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.10		02/23/10	WSD
Hexane	PPBv	ND	0.10		02/23/10	WSD
2-Hexanone	PPBv	ND	0.10		02/23/10	WSD
Isopropanol	PPBv	ND	0.20		02/23/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.10		02/23/10	WSD
Methylene Chloride	PPBv	ND	0.40		02/23/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.10		02/23/10	WSD
Propene	PPBv	ND	0.40		02/23/10	WSD
Styrene	PPBv	ND	0.10		02/23/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.10		02/23/10	WSD
Tetrachloroethylene	PPBv	6.7	0.10		02/23/10	WSD
Tetrahydrofuran	PPBv	15	0.10		02/23/10	WSD
Toluene	PPBv	ND	0.10		02/23/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		02/23/10	WSD
1,1,1-Trichloroethane	PPBv	220	0.10		02/23/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.10		02/23/10	WSD
Trichloroethylene	PPBv	86	0.10		02/23/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	42	0.10		02/23/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.10		02/23/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.10		02/23/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.10		02/23/10	WSD
Vinyl Acetate	PPBv	ND	0.40		02/23/10	WSD
Vinyl Chloride	PPBv	ND	0.10		02/23/10	WSD
m/p-Xylene	PPBv	ND	0.20		02/23/10	WSD
o-Xylene	PPBv	ND	0.10		02/23/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	ND	0.96		02/23/10	WSD
Benzene	ug/m3	0.43	0.32		02/23/10	WSD
Benzyl Chloride	ug/m3	ND	0.52		02/23/10	WSD
Bromodichloromethane	ug/m3	ND	0.66		02/23/10	WSD
Bromoform	ug/m3	ND	1.1		02/23/10	WSD
Bromomethane	ug/m3	ND	0.38		02/23/10	WSD
1,3-Butadiene	ug/m3	ND	0.45		02/23/10	WSD
2-Butanone (MEK)	ug/m3	9.0	0.30		02/23/10	WSD
Carbon Disulfide	ug/m3	3.8	0.32		02/23/10	WSD

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‡ See attached chain-of-custody record for time sampled



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

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2/25/2010
 Page 7 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : EW-Combined-021910

Sample ID : 10B00040 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.62		02/23/10	WSD
Chlorobenzene	ug/m3	ND	0.46		02/23/10	WSD
Chlorodibromomethane	ug/m3	ND	0.86		02/23/10	WSD
Chloroethane	ug/m3	9.9	0.26		02/23/10	WSD
Chloroform	ug/m3	6.2	0.48		02/23/10	WSD
Chloromethane	ug/m3	ND	0.20		02/23/10	WSD
Cyclohexane	ug/m3	ND	0.34		02/23/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.76		02/23/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.60		02/23/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.60		02/23/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.60		02/23/10	WSD
Dichlorodifluoromethane	ug/m3	2.7	0.50		02/23/10	WSD
1,1-Dichloroethane	ug/m3	310	0.40		02/23/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.40		02/23/10	WSD
1,1-Dichloroethylene	ug/m3	62	0.40		02/23/10	WSD
cis-1,2-Dichloroethylene	ug/m3	240	0.40		02/23/10	WSD
t-1,2-Dichloroethylene	ug/m3	4.1	0.40		02/23/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.46		02/23/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.44		02/23/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.44		02/23/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.70		02/23/10	WSD
Ethanol	ug/m3	62	0.18		02/23/10	WSD
Ethyl Acetate	ug/m3	ND	0.36		02/23/10	WSD
Ethylbenzene	ug/m3	ND	0.44		02/23/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.50		02/23/10	WSD
n-Heptane	ug/m3	ND	0.40		02/23/10	WSD
Hexachlorobutadiene	ug/m3	ND	1.1		02/23/10	WSD
Hexane	ug/m3	ND	0.36		02/23/10	WSD
2-Hexanone	ug/m3	ND	0.40		02/23/10	WSD
Isopropanol	ug/m3	ND	0.50		02/23/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.36		02/23/10	WSD
Methylene Chloride	ug/m3	ND	1.4		02/23/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.40		02/23/10	WSD
Propene	ug/m3	ND	0.69		02/23/10	WSD
Styrene	ug/m3	ND	0.42		02/23/10	WSD

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‡ See attached chain-of-custody record for time sampled



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2/25/2010
Page 8 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
Job Number: 3650080114

Field Sample # : EW-Combined-021910

Sample ID : **10B00040** ‡Sampled : 2/19/2010
Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.68		02/23/10	WSD
Tetrachloroethylene	ug/m3	45	0.68		02/23/10	WSD
Tetrahydrofuran	ug/m3	43	0.30		02/23/10	WSD
Toluene	ug/m3	ND	0.38		02/23/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.74		02/23/10	WSD
1,1,1-Trichloroethane	ug/m3	1200	0.54		02/23/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.54		02/23/10	WSD
Trichloroethylene	ug/m3	460	0.54		02/23/10	WSD
Trichlorofluoromethane	ug/m3	230	0.56		02/23/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.76		02/23/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.50		02/23/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.50		02/23/10	WSD
Vinyl Acetate	ug/m3	ND	1.5		02/23/10	WSD
Vinyl Chloride	ug/m3	ND	0.26		02/23/10	WSD
m/p-Xylene	ug/m3	ND	0.86		02/23/10	WSD
o-Xylene	ug/m3	ND	0.44		02/23/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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2/25/2010
Page 9 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
Job Number: 3650080114

Field Sample # : IA-1-021910

Sample ID : 10B00036 ‡Sampled : 2/19/2010
Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.6	0.05		02/22/10	WSD
Benzene	PPBv	0.17	0.05		02/22/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/22/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/22/10	WSD
Bromoform	PPBv	ND	0.05		02/22/10	WSD
Bromomethane	PPBv	ND	0.05		02/22/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/22/10	WSD
2-Butanone (MEK)	PPBv	0.42	0.05		02/22/10	WSD
Carbon Disulfide	PPBv	0.10	0.05		02/22/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/22/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/22/10	WSD
Chloroethane	PPBv	ND	0.05		02/22/10	WSD
Chloroform	PPBv	ND	0.05		02/22/10	WSD
Chloromethane	PPBv	0.59	0.05		02/22/10	WSD
Cyclohexane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Dichlorodifluoromethane	PPBv	0.60	0.05		02/22/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.14	0.05		02/22/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/22/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/22/10	WSD
Ethanol	PPBv	23	0.05		02/22/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/22/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/22/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/22/10	WSD
n-Heptane	PPBv	ND	0.05		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/25/2010
 Page 10 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-1-021910

Sample ID : 10B00036 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/22/10	WSD
Hexane	PPBv	0.13	0.05		02/22/10	WSD
2-Hexanone	PPBv	0.07	0.05		02/22/10	WSD
Isopropanol	PPBv	0.67	0.05		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/22/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/22/10	WSD
Propene	PPBv	ND	0.20		02/22/10	WSD
Styrene	PPBv	ND	0.05		02/22/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/22/10	WSD
Tetrachloroethylene	PPBv	0.18	0.05		02/22/10	WSD
Tetrahydrofuran	PPBv	0.08	0.05		02/22/10	WSD
Toluene	PPBv	0.15	0.05		02/22/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,1,1-Trichloroethane	PPBv	0.16	0.05		02/22/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
Trichloroethylene	PPBv	0.07	0.05		02/22/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.27	0.05		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/22/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/22/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/22/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/22/10	WSD
o-Xylene	PPBv	ND	0.05		02/22/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	8.5	0.12		02/22/10	WSD
Benzene	ug/m3	0.53	0.16		02/22/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/22/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/22/10	WSD
Bromoform	ug/m3	ND	0.51		02/22/10	WSD
Bromomethane	ug/m3	ND	0.19		02/22/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/22/10	WSD
2-Butanone (MEK)	ug/m3	1.2	0.15		02/22/10	WSD
Carbon Disulfide	ug/m3	0.33	0.16		02/22/10	WSD

RL = Reporting Limit

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‡ See attached chain-of-custody record for time sampled



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

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 WAKEFIELD, MA 01880

2/25/2010
 Page 11 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-1-021910

Sample ID : 10B00036 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.45	0.31		02/22/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/22/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/22/10	WSD
Chloroethane	ug/m3	ND	0.13		02/22/10	WSD
Chloroform	ug/m3	ND	0.24		02/22/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/22/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/22/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/22/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
Dichlorodifluoromethane	ug/m3	3.0	0.25		02/22/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.56	0.20		02/22/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/22/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/22/10	WSD
Ethanol	ug/m3	43	0.09		02/22/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/22/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/22/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/22/10	WSD
n-Heptane	ug/m3	ND	0.20		02/22/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/22/10	WSD
Hexane	ug/m3	0.45	0.18		02/22/10	WSD
2-Hexanone	ug/m3	0.27	0.20		02/22/10	WSD
Isopropanol	ug/m3	1.6	0.12		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/22/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/22/10	WSD
Propene	ug/m3	ND	0.35		02/22/10	WSD
Styrene	ug/m3	ND	0.21		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/25/2010
 Page 12 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-1-021910

Sample ID : 10B00036 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/22/10	WSD
Tetrachloroethylene	ug/m3	1.2	0.34		02/22/10	WSD
Tetrahydrofuran	ug/m3	0.22	0.15		02/22/10	WSD
Toluene	ug/m3	0.58	0.19		02/22/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/22/10	WSD
1,1,1-Trichloroethane	ug/m3	0.88	0.27		02/22/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
Trichloroethylene	ug/m3	0.39	0.27		02/22/10	WSD
Trichlorofluoromethane	ug/m3	1.5	0.28		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	0.38		02/22/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/22/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/22/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/22/10	WSD
o-Xylene	ug/m3	ND	0.22		02/22/10	WSD

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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WAKEFIELD, MA 01880

2/25/2010

Page 13 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)

LIMS-BAT #: LIMIT-25346

Date Received: 2/19/2010

Job Number: 3650080114

Field Sample # : IA-2-021910

Sample ID : 10B00037

‡Sampled : 2/19/2010

Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	ND	0.20		02/22/10	WSD
Benzene	PPBv	ND	0.05		02/22/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/22/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/22/10	WSD
Bromoform	PPBv	ND	0.05		02/22/10	WSD
Bromomethane	PPBv	ND	0.05		02/22/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/22/10	WSD
2-Butanone (MEK)	PPBv	ND	0.10		02/22/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/22/10	WSD
Carbon Tetrachloride	PPBv	ND	0.05		02/22/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/22/10	WSD
Chloroethane	PPBv	ND	0.05		02/22/10	WSD
Chloroform	PPBv	ND	0.05		02/22/10	WSD
Chloromethane	PPBv	0.66	0.05		02/22/10	WSD
Cyclohexane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Dichlorodifluoromethane	PPBv	0.60	0.05		02/22/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/22/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/22/10	WSD
Ethanol	PPBv	11	0.05		02/22/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/22/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/22/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/22/10	WSD
n-Heptane	PPBv	ND	0.05		02/22/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/25/2010
 Page 14 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-2-021910

Sample ID : 10B00037 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/22/10	WSD
Hexane	PPBv	ND	0.05		02/22/10	WSD
2-Hexanone	PPBv	ND	0.05		02/22/10	WSD
Isopropanol	PPBv	ND	0.10		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/22/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/22/10	WSD
Propene	PPBv	ND	0.20		02/22/10	WSD
Styrene	PPBv	ND	0.05		02/22/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/22/10	WSD
Tetrachloroethylene	PPBv	ND	0.05		02/22/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/22/10	WSD
Toluene	PPBv	ND	0.05		02/22/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,1,1-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
Trichloroethylene	PPBv	ND	0.05		02/22/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.19	0.05		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.05		02/22/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/22/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/22/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/22/10	WSD
o-Xylene	PPBv	ND	0.05		02/22/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	ND	0.48		02/22/10	WSD
Benzene	ug/m3	ND	0.16		02/22/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/22/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/22/10	WSD
Bromoform	ug/m3	ND	0.51		02/22/10	WSD
Bromomethane	ug/m3	ND	0.19		02/22/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/22/10	WSD
2-Butanone (MEK)	ug/m3	ND	0.30		02/22/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/22/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/25/2010
 Page 15 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-2-021910

Sample ID : 10B00037 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.31		02/22/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/22/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/22/10	WSD
Chloroethane	ug/m3	ND	0.13		02/22/10	WSD
Chloroform	ug/m3	ND	0.24		02/22/10	WSD
Chloromethane	ug/m3	1.4	0.10		02/22/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/22/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/22/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
Dichlorodifluoromethane	ug/m3	3.0	0.25		02/22/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/22/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/22/10	WSD
Ethanol	ug/m3	20	0.09		02/22/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/22/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/22/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/22/10	WSD
n-Heptane	ug/m3	ND	0.20		02/22/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/22/10	WSD
Hexane	ug/m3	ND	0.18		02/22/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/22/10	WSD
Isopropanol	ug/m3	ND	0.25		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/22/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/22/10	WSD
Propene	ug/m3	ND	0.35		02/22/10	WSD
Styrene	ug/m3	ND	0.21		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/25/2010
 Page 16 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-2-021910

Sample ID : 10B00037 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/22/10	WSD
Tetrachloroethylene	ug/m3	ND	0.34		02/22/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/22/10	WSD
Toluene	ug/m3	ND	0.19		02/22/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/22/10	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
Trichloroethylene	ug/m3	ND	0.27		02/22/10	WSD
Trichlorofluoromethane	ug/m3	1.1	0.28		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.38		02/22/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/22/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/22/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/22/10	WSD
o-Xylene	ug/m3	ND	0.22		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/25/2010
 Page 17 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-3-021910

Sample ID : 10B00038 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.1	0.05		02/22/10	WSD
Benzene	PPBv	0.17	0.05		02/22/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/22/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/22/10	WSD
Bromoform	PPBv	ND	0.05		02/22/10	WSD
Bromomethane	PPBv	ND	0.05		02/22/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/22/10	WSD
2-Butanone (MEK)	PPBv	0.53	0.05		02/22/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/22/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/22/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/22/10	WSD
Chloroethane	PPBv	ND	0.05		02/22/10	WSD
Chloroform	PPBv	ND	0.05		02/22/10	WSD
Chloromethane	PPBv	0.59	0.05		02/22/10	WSD
Cyclohexane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Dichlorodifluoromethane	PPBv	0.61	0.05		02/22/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.15	0.05		02/22/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/22/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/22/10	WSD
Ethanol	PPBv	20	0.05		02/22/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/22/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/22/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/22/10	WSD
n-Heptane	PPBv	ND	0.05		02/22/10	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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

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 WAKEFIELD, MA 01880

2/25/2010
 Page 18 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-3-021910

Sample ID : 10B00038 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.05		02/22/10	WSD
Hexane	PPBv	0.08	0.05		02/22/10	WSD
2-Hexanone	PPBv	0.10	0.05		02/22/10	WSD
Isopropanol	PPBv	0.80	0.05		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/22/10	WSD
Methylene Chloride	PPBv	ND	0.20		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/22/10	WSD
Propene	PPBv	ND	0.20		02/22/10	WSD
Styrene	PPBv	ND	0.05		02/22/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/22/10	WSD
Tetrachloroethylene	PPBv	0.20	0.05		02/22/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/22/10	WSD
Toluene	PPBv	0.12	0.05		02/22/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,1,1-Trichloroethane	PPBv	0.16	0.05		02/22/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
Trichloroethylene	PPBv	0.07	0.05		02/22/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.28	0.05		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/22/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/22/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/22/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/22/10	WSD
o-Xylene	PPBv	ND	0.05		02/22/10	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	7.3	0.12		02/22/10	WSD
Benzene	ug/m3	0.53	0.16		02/22/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/22/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/22/10	WSD
Bromoform	ug/m3	ND	0.51		02/22/10	WSD
Bromomethane	ug/m3	ND	0.19		02/22/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/22/10	WSD
2-Butanone (MEK)	ug/m3	1.6	0.15		02/22/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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 WAKEFIELD, MA 01880

2/25/2010
 Page 19 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-3-021910

Sample ID : 10B00038 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.43	0.31		02/22/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/22/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/22/10	WSD
Chloroethane	ug/m3	ND	0.13		02/22/10	WSD
Chloroform	ug/m3	ND	0.24		02/22/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/22/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/22/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/22/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
Dichlorodifluoromethane	ug/m3	3.0	0.25		02/22/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.59	0.20		02/22/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/22/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/22/10	WSD
Ethanol	ug/m3	38	0.09		02/22/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/22/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/22/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/22/10	WSD
n-Heptane	ug/m3	ND	0.20		02/22/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/22/10	WSD
Hexane	ug/m3	0.29	0.18		02/22/10	WSD
2-Hexanone	ug/m3	0.39	0.20		02/22/10	WSD
Isopropanol	ug/m3	2.0	0.12		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/22/10	WSD
Methylene Chloride	ug/m3	ND	0.70		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/22/10	WSD
Propene	ug/m3	ND	0.35		02/22/10	WSD
Styrene	ug/m3	ND	0.21		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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 WAKEFIELD, MA 01880

2/25/2010
 Page 20 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-3-021910

Sample ID : 10B00038 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/22/10	WSD
Tetrachloroethylene	ug/m3	1.3	0.34		02/22/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/22/10	WSD
Toluene	ug/m3	0.46	0.19		02/22/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/22/10	WSD
1,1,1-Trichloroethane	ug/m3	0.86	0.27		02/22/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
Trichloroethylene	ug/m3	0.40	0.27		02/22/10	WSD
Trichlorofluoromethane	ug/m3	1.6	0.28		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.52	0.38		02/22/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/22/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/22/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/22/10	WSD
o-Xylene	ug/m3	ND	0.22		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

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2/25/2010
 Page 21 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-4-021910

Sample ID : 10B00039 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	1.0	0.05		02/22/10	WSD
Benzene	PPBv	0.17	0.05		02/22/10	WSD
Benzyl Chloride	PPBv	ND	0.05		02/22/10	WSD
Bromodichloromethane	PPBv	ND	0.05		02/22/10	WSD
Bromoform	PPBv	ND	0.05		02/22/10	WSD
Bromomethane	PPBv	ND	0.05		02/22/10	WSD
1,3-Butadiene	PPBv	ND	0.10		02/22/10	WSD
2-Butanone (MEK)	PPBv	0.17	0.05		02/22/10	WSD
Carbon Disulfide	PPBv	ND	0.05		02/22/10	WSD
Carbon Tetrachloride	PPBv	0.07	0.05		02/22/10	WSD
Chlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Chlorodibromomethane	PPBv	ND	0.05		02/22/10	WSD
Chloroethane	PPBv	ND	0.05		02/22/10	WSD
Chloroform	PPBv	ND	0.05		02/22/10	WSD
Chloromethane	PPBv	0.59	0.05		02/22/10	WSD
Cyclohexane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dibromoethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,3-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,4-Dichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
Dichlorodifluoromethane	PPBv	0.61	0.05		02/22/10	WSD
1,1-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloroethane	PPBv	ND	0.05		02/22/10	WSD
1,1-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
cis-1,2-Dichloroethylene	PPBv	0.15	0.05		02/22/10	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichloropropane	PPBv	ND	0.05		02/22/10	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.05		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.05		02/22/10	WSD
Ethanol	PPBv	16	0.05		02/22/10	WSD
Ethyl Acetate	PPBv	ND	0.05		02/22/10	WSD
Ethylbenzene	PPBv	ND	0.05		02/22/10	WSD
4-Ethyl Toluene	PPBv	ND	0.05		02/22/10	WSD
n-Heptane	PPBv	ND	0.05		02/22/10	WSD

RL = Reporting Limit

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled



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2/25/2010
 Page 22 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-4-021910

Sample ID : 10B00039 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
				EPA TO-15		
to-15 ppbv						
Hexachlorobutadiene	PPBv	ND	0.05		02/22/10	WSD
Hexane	PPBv	0.14	0.05		02/22/10	WSD
2-Hexanone	PPBv	ND	0.05		02/22/10	WSD
Isopropanol	PPBv	0.79	0.05		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.05		02/22/10	WSD
Methylene Chloride	PPBv	0.20	0.05		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.05		02/22/10	WSD
Propene	PPBv	ND	0.20		02/22/10	WSD
Styrene	PPBv	ND	0.05		02/22/10	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.05		02/22/10	WSD
Tetrachloroethylene	PPBv	0.20	0.05		02/22/10	WSD
Tetrahydrofuran	PPBv	ND	0.05		02/22/10	WSD
Toluene	PPBv	0.13	0.05		02/22/10	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.05		02/22/10	WSD
1,1,1-Trichloroethane	PPBv	0.16	0.05		02/22/10	WSD
1,1,2-Trichloroethane	PPBv	ND	0.05		02/22/10	WSD
Trichloroethylene	PPBv	0.07	0.05		02/22/10	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.28	0.05		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.07	0.05		02/22/10	WSD
1,2,4-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.05		02/22/10	WSD
Vinyl Acetate	PPBv	ND	0.20		02/22/10	WSD
Vinyl Chloride	PPBv	ND	0.05		02/22/10	WSD
m/p-Xylene	PPBv	ND	0.10		02/22/10	WSD
o-Xylene	PPBv	ND	0.05		02/22/10	WSD
				EPA TO-15		
to-15 ug/m						
Acetone	ug/m3	2.5	0.12		02/22/10	WSD
Benzene	ug/m3	0.54	0.16		02/22/10	WSD
Benzyl Chloride	ug/m3	ND	0.26		02/22/10	WSD
Bromodichloromethane	ug/m3	ND	0.33		02/22/10	WSD
Bromoform	ug/m3	ND	0.51		02/22/10	WSD
Bromomethane	ug/m3	ND	0.19		02/22/10	WSD
1,3-Butadiene	ug/m3	ND	0.23		02/22/10	WSD
2-Butanone (MEK)	ug/m3	0.50	0.15		02/22/10	WSD
Carbon Disulfide	ug/m3	ND	0.16		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled

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2/25/2010
 Page 23 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-4-021910

Sample ID : 10B00039 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.42	0.31		02/22/10	WSD
Chlorobenzene	ug/m3	ND	0.23		02/22/10	WSD
Chlorodibromomethane	ug/m3	ND	0.43		02/22/10	WSD
Chloroethane	ug/m3	ND	0.13		02/22/10	WSD
Chloroform	ug/m3	ND	0.24		02/22/10	WSD
Chloromethane	ug/m3	1.2	0.10		02/22/10	WSD
Cyclohexane	ug/m3	ND	0.17		02/22/10	WSD
1,2-Dibromoethane	ug/m3	ND	0.38		02/22/10	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.30		02/22/10	WSD
Dichlorodifluoromethane	ug/m3	3.0	0.25		02/22/10	WSD
1,1-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloroethane	ug/m3	ND	0.20		02/22/10	WSD
1,1-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
cis-1,2-Dichloroethylene	ug/m3	0.59	0.20		02/22/10	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.20		02/22/10	WSD
1,2-Dichloropropane	ug/m3	ND	0.23		02/22/10	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.22		02/22/10	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.35		02/22/10	WSD
Ethanol	ug/m3	31	0.09		02/22/10	WSD
Ethyl Acetate	ug/m3	ND	0.18		02/22/10	WSD
Ethylbenzene	ug/m3	ND	0.22		02/22/10	WSD
4-Ethyl Toluene	ug/m3	ND	0.25		02/22/10	WSD
n-Heptane	ug/m3	ND	0.20		02/22/10	WSD
Hexachlorobutadiene	ug/m3	ND	0.53		02/22/10	WSD
Hexane	ug/m3	0.49	0.18		02/22/10	WSD
2-Hexanone	ug/m3	ND	0.20		02/22/10	WSD
Isopropanol	ug/m3	1.9	0.12		02/22/10	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.18		02/22/10	WSD
Methylene Chloride	ug/m3	0.71	0.17		02/22/10	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.20		02/22/10	WSD
Propene	ug/m3	ND	0.35		02/22/10	WSD
Styrene	ug/m3	ND	0.21		02/22/10	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ See attached chain-of-custody record for time sampled

Kelly Chatterton
 MACTEC ENGINEERING & CONSULTING - MA
 107 AUDUBON ROAD, BLDG. 2, SUITE 301
 WAKEFIELD, MA 01880

2/25/2010
 Page 24 of 25

Purchase Order No.: 206914545

Project Location: Providence, RI (Gorham)
 Date Received: 2/19/2010

LIMS-BAT #: LIMIT-25346
 Job Number: 3650080114

Field Sample # : IA-4-021910

Sample ID : 10B00039 ‡Sampled : 2/19/2010
 Not Specified
Sample Matrix: AIR **Sample Medium :** SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.34		02/22/10	WSD
Tetrachloroethylene	ug/m3	1.4	0.34		02/22/10	WSD
Tetrahydrofuran	ug/m3	ND	0.15		02/22/10	WSD
Toluene	ug/m3	0.47	0.19		02/22/10	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.37		02/22/10	WSD
1,1,1-Trichloroethane	ug/m3	0.89	0.27		02/22/10	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.27		02/22/10	WSD
Trichloroethylene	ug/m3	0.40	0.27		02/22/10	WSD
Trichlorofluoromethane	ug/m3	1.6	0.28		02/22/10	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.55	0.38		02/22/10	WSD
1,2,4-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.25		02/22/10	WSD
Vinyl Acetate	ug/m3	ND	0.71		02/22/10	WSD
Vinyl Chloride	ug/m3	ND	0.13		02/22/10	WSD
m/p-Xylene	ug/m3	ND	0.43		02/22/10	WSD
o-Xylene	ug/m3	ND	0.22		02/22/10	WSD

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Kelly Chatterton

MACTEC ENGINEERING & CONSULTING - MA

107 AUDUBON ROAD, BLDG. 2, SUITE 301

WAKEFIELD, MA 01880

Project Location: Providence, RI (Gorham)

Date Received: 2/19/2010

Purchase Order No.: 206914545

2/25/2010

Page 25 of 25

LIMS-BAT #: LIMIT-25346

Job Number: 3650080114

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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‡ See attached chain-of-custody record for time sampled



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 1 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
10B00036	4-Bromofluorobenzene	Surrogate Recovery	104.75	%	70-130
10B00037	4-Bromofluorobenzene	Surrogate Recovery	103.75	%	70-130
10B00038	4-Bromofluorobenzene	Surrogate Recovery	107.00	%	70-130
10B00039	4-Bromofluorobenzene	Surrogate Recovery	102.62	%	70-130
10B00040	4-Bromofluorobenzene	Surrogate Recovery	102.00	%	70-130
10B00041	4-Bromofluorobenzene	Surrogate Recovery	105.12	%	70-130
BLANK-133047	Acetone	Blank	0.38	ug/m3	
	Benzene	Blank	<0.07	ug/m3	
	Carbon Tetrachloride	Blank	<0.13	ug/m3	
	Chloroform	Blank	<0.10	ug/m3	
	1,2-Dichloroethane	Blank	<0.08	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.12	ug/m3	
	Ethyl Acetate	Blank	<0.08	ug/m3	
	Ethylbenzene	Blank	<0.09	ug/m3	
	Hexane	Blank	<0.08	ug/m3	
	Isopropanol	Blank	<0.10	ug/m3	
	2-Butanone (MEK)	Blank	0.23	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.08	ug/m3	
	Styrene	Blank	<0.09	ug/m3	
	Tetrachloroethylene	Blank	<0.14	ug/m3	
	Toluene	Blank	<0.08	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.11	ug/m3	
	Trichloroethylene	Blank	<0.11	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.16	ug/m3	
	Trichlorofluoromethane	Blank	<0.12	ug/m3	
	o-Xylene	Blank	<0.09	ug/m3	
	m/p-Xylene	Blank	<0.18	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,1-Dichloroethane	Blank	<0.08	ug/m3	
	1,1-Dichloroethylene	Blank	<0.08	ug/m3	
	Ethanol	Blank	<0.16	ug/m3	
	4-Ethyl Toluene	Blank	<0.10	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.08	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	Vinyl Chloride	Blank	<0.06	ug/m3	
	Methylene Chloride	Blank	<0.28	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 2 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133047					
	Chlorobenzene	Blank	<0.10	ug/m3	
	Chloromethane	Blank	<0.04	ug/m3	
	Bromomethane	Blank	<0.08	ug/m3	
	Chloroethane	Blank	<0.06	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	Chlorodibromomethane	Blank	<0.18	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.11	ug/m3	
	Bromoform	Blank	<0.21	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.14	ug/m3	
	Hexachlorobutadiene	Blank	<0.22	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.15	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.10	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.10	ug/m3	
	Cyclohexane	Blank	<0.07	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	1,2-Dichloropropane	Blank	<0.10	ug/m3	
	Dichlorodifluoromethane	Blank	<0.10	ug/m3	
	Benzyl Chloride	Blank	<0.11	ug/m3	
	Carbon Disulfide	Blank	<0.07	ug/m3	
	Vinyl Acetate	Blank	<0.29	ug/m3	
	2-Hexanone	Blank	<0.08	ug/m3	
	Bromodichloromethane	Blank	<0.14	ug/m3	
	1,2-Dibromoethane	Blank	<0.16	ug/m3	
	n-Heptane	Blank	<0.08	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.14	ug/m3	
	Tetrahydrofuran	Blank	<0.06	ug/m3	
	Propene	Blank	<0.14	ug/m3	
	1,3-Butadiene	Blank	<0.09	ug/m3	
BLANK-133048					
	Acetone	Blank	<0.20	ug/m3	
	Benzene	Blank	<0.07	ug/m3	
	Carbon Tetrachloride	Blank	<0.13	ug/m3	
	Chloroform	Blank	<0.10	ug/m3	
	1,2-Dichloroethane	Blank	<0.08	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.12	ug/m3	
	Ethyl Acetate	Blank	<0.08	ug/m3	
	Ethylbenzene	Blank	<0.09	ug/m3	
	Hexane	Blank	<0.08	ug/m3	
	Isopropanol	Blank	<0.10	ug/m3	
	2-Butanone (MEK)	Blank	<0.12	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.08	ug/m3	
	Styrene	Blank	<0.09	ug/m3	



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 3 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133048					
	Tetrachloroethylene	Blank	<0.14	ug/m3	
	Toluene	Blank	<0.08	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.11	ug/m3	
	Trichloroethylene	Blank	<0.11	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.16	ug/m3	
	Trichlorofluoromethane	Blank	<0.12	ug/m3	
	o-Xylene	Blank	<0.09	ug/m3	
	m/p-Xylene	Blank	<0.18	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.12	ug/m3	
	1,1-Dichloroethane	Blank	<0.08	ug/m3	
	1,1-Dichloroethylene	Blank	<0.08	ug/m3	
	Ethanol	Blank	<0.16	ug/m3	
	4-Ethyl Toluene	Blank	<0.10	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.08	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	Vinyl Chloride	Blank	<0.06	ug/m3	
	Methylene Chloride	Blank	<0.28	ug/m3	
	Chlorobenzene	Blank	<0.10	ug/m3	
	Chloromethane	Blank	<0.04	ug/m3	
	Bromomethane	Blank	<0.08	ug/m3	
	Chloroethane	Blank	<0.06	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.09	ug/m3	
	Chlorodibromomethane	Blank	<0.18	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.11	ug/m3	
	Bromoform	Blank	<0.21	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.14	ug/m3	
	Hexachlorobutadiene	Blank	<0.22	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.15	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.10	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.10	ug/m3	
	Cyclohexane	Blank	<0.07	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.08	ug/m3	
	1,2-Dichloropropane	Blank	<0.10	ug/m3	
	Dichlorodifluoromethane	Blank	<0.10	ug/m3	
	Benzyl Chloride	Blank	<0.11	ug/m3	
	Carbon Disulfide	Blank	<0.07	ug/m3	
	Vinyl Acetate	Blank	<0.29	ug/m3	
	2-Hexanone	Blank	<0.08	ug/m3	
	Bromodichloromethane	Blank	<0.14	ug/m3	
	1,2-Dibromoethane	Blank	<0.16	ug/m3	
	n-Heptane	Blank	<0.08	ug/m3	



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 4 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-133048					
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.14	ug/m3	
	Tetrahydrofuran	Blank	<0.06	ug/m3	
	Propene	Blank	<0.14	ug/m3	
	1,3-Butadiene	Blank	<0.09	ug/m3	
LFBLANK-95372					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.25	ug/m3	
		Lab Fort Blk. % Rec.	103.16	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	13.37	ug/m3	
		Lab Fort Blk. % Rec.	83.87	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	30.98	ug/m3	
		Lab Fort Blk. % Rec.	98.50	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	27.25	ug/m3	
		Lab Fort Blk. % Rec.	111.98	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	23.56	ug/m3	
		Lab Fort Blk. % Rec.	116.40	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	28.10	ug/m3	
		Lab Fort Blk. % Rec.	93.50	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.52	ug/m3	
		Lab Fort Blk. % Rec.	113.92	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	21.05	ug/m3	
		Lab Fort Blk. % Rec.	97.12	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	17.68	ug/m3	
		Lab Fort Blk. % Rec.	100.36	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	12.22	ug/m3	
		Lab Fort Blk. % Rec.	99.47	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.02	ug/m3	
		Lab Fort Blk. % Rec.	88.36	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.37	ug/m3	
		Lab Fort Blk. % Rec.	89.69	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	20.65	ug/m3	

QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 5 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95372	Styrene	Lab Fort Blk. % Rec.	97.10	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	30.53	ug/m3	
		Lab Fort Blk. % Rec.	90.05	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.01	ug/m3	
		Lab Fort Blk. % Rec.	90.44	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	26.19	ug/m3	
		Lab Fort Blk. % Rec.	96.04	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.60	ug/m3	
		Lab Fort Blk. % Rec.	87.83	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	34.96	ug/m3	
		Lab Fort Blk. % Rec.	91.23	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	32.85	ug/m3	
		Lab Fort Blk. % Rec.	116.94	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	21.69	ug/m3	
		Lab Fort Blk. % Rec.	99.90	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	41.11	ug/m3	
		Lab Fort Blk. % Rec.	94.65	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.73	ug/m3	
		Lab Fort Blk. % Rec.	92.26	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.95	ug/m3	
		Lab Fort Blk. % Rec.	93.00	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.54	ug/m3	
		Lab Fort Blk. % Rec.	101.50	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	18.71	ug/m3	
		Lab Fort Blk. % Rec.	94.33	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	10.43	ug/m3	
		Lab Fort Blk. % Rec.	110.80	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.88	ug/m3	
		Lab Fort Blk. % Rec.	101.24	%	50-150



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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 6 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95372					
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	20.97	ug/m3	
		Lab Fort Blk. % Rec.	116.38	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.31	ug/m3	
		Lab Fort Blk. % Rec.	102.46	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	12.50	ug/m3	
		Lab Fort Blk. % Rec.	97.80	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	17.52	ug/m3	
		Lab Fort Blk. % Rec.	100.94	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	20.83	ug/m3	
		Lab Fort Blk. % Rec.	90.48	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.56	ug/m3	
		Lab Fort Blk. % Rec.	92.64	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.33	ug/m3	
		Lab Fort Blk. % Rec.	99.62	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	13.35	ug/m3	
		Lab Fort Blk. % Rec.	101.26	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	22.01	ug/m3	
		Lab Fort Blk. % Rec.	97.00	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	23.03	ug/m3	
		Lab Fort Blk. % Rec.	101.48	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	44.16	ug/m3	
		Lab Fort Blk. % Rec.	103.68	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.41	ug/m3	
		Lab Fort Blk. % Rec.	89.48	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	59.46	ug/m3	
		Lab Fort Blk. % Rec.	115.02	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	33.05	ug/m3	
		Lab Fort Blk. % Rec.	96.25	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 7 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95372					
	Hexachlorobutadiene	Lab Fort Blk. Found	69.76	ug/m3	
		Lab Fort Blk. % Rec.	130.80	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	37.74	ug/m3	
		Lab Fort Blk. % Rec.	101.72	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.08	ug/m3	
		Lab Fort Blk. % Rec.	102.06	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.42	ug/m3	
		Lab Fort Blk. % Rec.	99.38	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	15.01	ug/m3	
		Lab Fort Blk. % Rec.	87.22	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.61	ug/m3	
		Lab Fort Blk. % Rec.	103.96	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	19.05	ug/m3	
		Lab Fort Blk. % Rec.	82.46	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	28.93	ug/m3	
		Lab Fort Blk. % Rec.	117.02	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	30.19	ug/m3	
		Lab Fort Blk. % Rec.	116.64	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.00	ug/m3	
		Lab Fort Blk. % Rec.	89.93	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	15.53	ug/m3	
		Lab Fort Blk. % Rec.	88.24	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.15	ug/m3	
		Lab Fort Blk. % Rec.	88.64	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	34.56	ug/m3	
		Lab Fort Blk. % Rec.	103.18	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	35.22	ug/m3	
		Lab Fort Blk. % Rec.	91.66	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	17.57	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 8 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95372	n-Heptane	Lab Fort Blk. % Rec.	85.77	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.36	ug/m3	
		Lab Fort Blk. % Rec.	104.04	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.28	ug/m3	
		Lab Fort Blk. % Rec.	103.70	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.20	ug/m3	
		Lab Fort Blk. % Rec.	95.32	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	10.45	ug/m3	
		Lab Fort Blk. % Rec.	94.56	%	70-130
LFBLANK-95373	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	12.62	ug/m3	
		Lab Fort Blk. % Rec.	106.30	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	13.60	ug/m3	
		Lab Fort Blk. % Rec.	85.30	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	28.52	ug/m3	
		Lab Fort Blk. % Rec.	90.70	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	26.95	ug/m3	
		Lab Fort Blk. % Rec.	110.76	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	22.30	ug/m3	
		Lab Fort Blk. % Rec.	110.16	%	70-130
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.99	ug/m3	
		Lab Fort Blk. % Rec.	93.12	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.57	ug/m3	
		Lab Fort Blk. % Rec.	114.22	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	21.13	ug/m3	
		Lab Fort Blk. % Rec.	97.50	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	17.87	ug/m3	
		Lab Fort Blk. % Rec.	101.44	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	12.66	ug/m3	

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 9 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95373					
	Isopropanol	Lab Fort Blk. % Rec.	103.04	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	13.11	ug/m3	
		Lab Fort Blk. % Rec.	88.94	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.52	ug/m3	
		Lab Fort Blk. % Rec.	90.41	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	20.97	ug/m3	
		Lab Fort Blk. % Rec.	98.62	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	30.82	ug/m3	
		Lab Fort Blk. % Rec.	90.91	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	17.42	ug/m3	
		Lab Fort Blk. % Rec.	92.62	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	24.79	ug/m3	
		Lab Fort Blk. % Rec.	90.90	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.45	ug/m3	
		Lab Fort Blk. % Rec.	87.27	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	35.64	ug/m3	
		Lab Fort Blk. % Rec.	93.02	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	31.47	ug/m3	
		Lab Fort Blk. % Rec.	112.02	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	
		Lab Fort Blk. Found	21.67	ug/m3	
		Lab Fort Blk. % Rec.	99.80	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	40.85	ug/m3	
		Lab Fort Blk. % Rec.	94.07	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.78	ug/m3	
		Lab Fort Blk. % Rec.	92.42	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	27.59	ug/m3	
		Lab Fort Blk. % Rec.	91.80	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	20.64	ug/m3	
		Lab Fort Blk. % Rec.	101.98	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 10 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95373	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	19.27	ug/m3	
		Lab Fort Blk. % Rec.	97.15	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	10.56	ug/m3	
		Lab Fort Blk. % Rec.	112.18	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.25	ug/m3	
		Lab Fort Blk. % Rec.	102.76	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	20.94	ug/m3	
		Lab Fort Blk. % Rec.	116.18	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.39	ug/m3	
		Lab Fort Blk. % Rec.	102.88	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	12.88	ug/m3	
		Lab Fort Blk. % Rec.	100.78	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	19.32	ug/m3	
		Lab Fort Blk. % Rec.	111.30	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	21.00	ug/m3	
		Lab Fort Blk. % Rec.	91.19	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	9.95	ug/m3	
		Lab Fort Blk. % Rec.	96.46	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	19.68	ug/m3	
		Lab Fort Blk. % Rec.	101.44	%	70-130
Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3		
	Lab Fort Blk. Found	13.60	ug/m3		
	Lab Fort Blk. % Rec.	103.18	%	70-130	
cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3		
	Lab Fort Blk. Found	22.09	ug/m3		
	Lab Fort Blk. % Rec.	97.34	%	70-130	
trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3		
	Lab Fort Blk. Found	22.46	ug/m3		
	Lab Fort Blk. % Rec.	98.97	%	70-130	
Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3		
	Lab Fort Blk. Found	42.76	ug/m3		
	Lab Fort Blk. % Rec.	100.40	%	70-130	
1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3		



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 11 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95373					
	1,1,2-Trichloroethane	Lab Fort Blk. Found	24.44	ug/m3	
		Lab Fort Blk. % Rec.	89.61	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	56.15	ug/m3	
		Lab Fort Blk. % Rec.	108.62	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	32.73	ug/m3	
		Lab Fort Blk. % Rec.	95.33	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	65.12	ug/m3	
		Lab Fort Blk. % Rec.	122.10	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	36.70	ug/m3	
		Lab Fort Blk. % Rec.	98.91	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.93	ug/m3	
		Lab Fort Blk. % Rec.	101.46	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.18	ug/m3	
		Lab Fort Blk. % Rec.	98.40	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	15.01	ug/m3	
		Lab Fort Blk. % Rec.	87.22	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	20.65	ug/m3	
		Lab Fort Blk. % Rec.	104.20	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	19.50	ug/m3	
		Lab Fort Blk. % Rec.	84.41	%	70-130
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	27.52	ug/m3	
		Lab Fort Blk. % Rec.	111.32	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	27.14	ug/m3	
		Lab Fort Blk. % Rec.	104.86	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	14.98	ug/m3	
		Lab Fort Blk. % Rec.	96.25	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	15.71	ug/m3	
		Lab Fort Blk. % Rec.	89.26	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	18.09	ug/m3	



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 12 of 14

QC Batch Number: BATCH-16672

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-95373					
	2-Hexanone	Lab Fort Blk. % Rec.	88.33	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	33.37	ug/m3	
	1,2-Dibromoethane	Lab Fort Blk. % Rec.	99.62	%	70-130
		Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	35.42	ug/m3	
	n-Heptane	Lab Fort Blk. % Rec.	92.18	%	70-130
		Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	17.97	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blk. % Rec.	87.74	%	50-150
		Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	36.17	ug/m3	
	Tetrahydrofuran	Lab Fort Blk. % Rec.	103.50	%	70-130
		Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.89	ug/m3	
	Propene	Lab Fort Blk. % Rec.	107.82	%	50-150
		Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.34	ug/m3	
	1,3-Butadiene	Lab Fort Blk. % Rec.	96.96	%	50-150
		Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	10.51	ug/m3	
		Lab Fort Blk. % Rec.	95.10	%	70-130



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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/25/2010

Lims Bat # : LIMIT-25346

Page 13 of 14

NOTES:

QC Batch No. : BATCH-16672

Sample ID : LFBLANK-95372

Analysis : Hexachlorobutadiene

LABORATORY FORTIFIED BLANK 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.



QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates BATCH QC: Lab fortified Blanks and Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates Standard Reference Materials and Duplicates
Method Blanks

Report Date: 2/25/2010 Lims Bat #: LIMIT-25346 Page 14 of 14

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.

LIMITS Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.

Sample Amount Amount of analyte found in a sample.

Blank Method Blank that has been taken though all the steps of the analysis.

LFBLANK Laboratory Fortified Blank (a control sample)

STDADD Standard Added (a laboratory control sample)

Matrix Spk Amt Added Amount of analyte spiked into a sample
MS Amt Measured Amount of analyte found including amount that was spiked
Matrix Spike % Rec. % Recovery of spiked amount in sample.

Duplicate Value The result from the Duplicate analysis of the sample.
Duplicate RPD The Relative Percent Difference between two Duplicate Analyses.

Surrogate Recovery The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.

Sur. Recovery (ELCD) Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID) Surrogate Recovery on the Photoionization Detector.

Standard Measured Amount measured for a laboratory control sample
Standard Amt Added Known value for a laboratory control sample
Standard % Recovery % recovered for a laboratory control sample with a known value.

Lab Fort Blank Amt Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).

Lab Fort Bl. Av. Rec. Laboratory Fortified Blank Average Recovery

Duplicate Sample Amt Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured Matrix Spike Duplicate Amount Measured
MSD % Recovery Matrix Spike Duplicate % Recovery
MSD Range Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



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Page 1 of 1

Company Name: MACTEC Engineering
 Address: 107 Audubon Rd, Suite 301
Wakefield, MA 01880

Attention: Kelly Chaffin

Project Location: Providence, RI (Graham)
 Sampled By: MAM

Proposal Provided? (For Billing purposes)
 yes no

Telephone: (781) 245-6606
 Project # 3650020119
 Client PO # 206914545

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT

Fax #: _____
 Email: K5 Chaffin@contestlabs.com

Format: EXCEL PDF GIS KEY OTHER _____

ANALYSIS REQUESTED	"Hg"	Please fill out completely, sign, date and retain the yellow copy for your record.
	Initial Sample	Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
	Final Sample	Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Sampled		ONLY USE WHEN USING PUMPS		Flow Rate M ³ /Min. or L/Min.	Volume Liters or M ³	Matrix Code*	Summa Canister ID	Flow Controller ID
				Start Time	Stop Time	Total Minutes Sampled	Flow Rate					
IA-1-021910		S	10800036	2/14/10 7:29	2/14/10 7:54	30	0.2	6	IA	X	1763	4094
IA-2-021910		S	10800037	2/14/10 7:31	2/14/10 8:01	30	0.2	6	IA	X	1257	4092
IA-3-021910		S	10800038	2/14/10 7:27	2/14/10 7:57	30	0.2	6	IA	X	1135	4057
IA-4-021910		S	10800039	2/14/10 7:29	2/14/10 7:59	30	0.2	6	IA	X	1640	4096
EW-Combust-021910		S	10800040	2/14/10 8:41	2/14/10 9:11	30	0.2	6	56	X	1475	4105
AA-1-021910		S	10800041	2/14/10 8:32	2/14/10 9:22	30	0.2	6	AMB	X	1387	4070

Laboratory Comments: _____

CLIENT COMMENTS:
EW-Combust-021910 was sampled from source area

Relinquished by: (signature) _____ Date/Time: 2/14/10 14:20

Received by: (signature) _____ Date/Time: 2/15/10 14:20

Relinquished by: (signature) _____ Date/Time: 2/19/10 19:32

Received by: (signature) _____ Date/Time: 2/19/10 19:32

Turnaround **
 7-Day
 10-Day
 Other RUSH*

Regulations: _____
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 Required Detection Limits: CT Target Indoor
 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 TB= feeder 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.

AIHA, NELAP & WBE/DBE Certified



www.contestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Mactec Eng.
RECEIVED BY: KA DATE: 2/19/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: _____

- 3. All Samples in good condition? YES NO

If not, explain: _____

- 4. Are there any on hold samples? YES NO STORED WHERE: _____

- 5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored: AirLab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST	# of containers
Summa cans	6
Tedlar Bags	
Regulators	6
Restrictors	
Tubes	
Other	

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:

APPENDIX B

Analytical Laboratory Detection Limits



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Analyte:

TO-14 / TO-15	PPBv	UG/M3	PPBv	UG/M3	MW NIST	UG/M3	PPBv
1,1,1-Trichloroethane	ND	ND	0.050	0.27	133.40	1	0.18
1,1,2,2-Tetrachloroethane	ND	ND	0.050	0.34	167.85	1	0.15
1,1,2-Trichloroethane	ND	ND	0.050	0.27	133.40	1	0.18
1,1,2-Trichlorotrifluoroethane (freon 113)	ND	ND	0.050	0.38	187.37	1	0.13
1,1-Dichloroethane	ND	ND	0.050	0.20	98.96	1	0.25
1,1-Dichloroethene	ND	ND	0.050	0.20	96.94	1	0.25
1,2,4-Trichlorobenzene	ND	ND	0.050	0.37	181.45	1	0.13
1,2,4-Trimethylbenzene	ND	ND	0.050	0.25	120.19	1	0.20
1,2-Dibromoethane	ND	ND	0.050	0.38	187.86	1	0.13
1,2-Dichlorobenzene	ND	ND	0.050	0.30	147.00	1	0.17
1,2-Dichloroethane	ND	ND	0.050	0.20	98.96	1	0.25
1,2-Dichloropropane	ND	ND	0.050	0.23	112.99	1	0.22
1,2-Dichlorotetrafluoroethane (freon 114)	ND	ND	0.050	0.35	170.92	1	0.14
1,3 - Butadiene	ND	ND	0.050	0.11	54.09	1	0.45
1,3,5-Trimethylbenzene	ND	ND	0.050	0.25	120.19	1	0.20
1,3-Dichlorobenzene	ND	ND	0.050	0.30	147.00	1	0.17
1,4-Dichlorobenzene	ND	ND	0.050	0.30	147.00	1	0.17
1,4-Dioxane	ND	ND	0.050	0.18	88.11	1	0.28
2-Butanone (MEK)	ND	ND	0.050	0.15	72.11	1	0.34
2-Hexanone (MBK)	ND	ND	0.050	0.20	100.16	1	0.24
4-Ethyltoluene	ND	ND	0.050	0.25	120.19	1	0.20
4-Methyl-2-pentanone(MIBK)	ND	ND	0.050	0.20	100.16	1	0.24
Acetone	ND	ND	0.050	0.12	58.08	1	0.42
Acrolein	ND	ND	0.050	0.11	56.06	1	0.44
Benzene	ND	ND	0.050	0.16	78.11	1	0.31
Benzyl Chloride	ND	ND	0.050	0.26	126.58	1	0.19
Bromodichloromethane	ND	ND	0.050	0.34	163.83	1	0.15
Bromoform	ND	ND	0.050	0.52	252.73	1	0.10
Bromomethane	ND	ND	0.050	0.19	94.94	1	0.26
Carbon Disulfide	ND	ND	0.050	0.16	76.14	1	0.32
Carbon Tetrachloride	ND	ND	0.050	0.31	153.82	1	0.16



39 Spruce Street, 2nd Floor
 East Longmeadow, MA 01028
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Chlorobenzene	ND	ND	0.050	0.23	112.56	1	0.22
Chloroethane	ND	ND	0.050	0.13	64.51	1	0.38
Chloroform	ND	ND	0.050	0.24	119.38	1	0.20
Chloromethane	ND	ND	0.050	0.10	50.49	1	0.48
cis-1,2-Dichloroethene	ND	ND	0.050	0.20	96.94	1	0.25
cis-1,3-Dichloropropene	ND	ND	0.050	0.23	110.97	1	0.22
Cyclohexane	ND	ND	0.050	0.17	84.16	1	0.29
Dibromochloromethane	ND	ND	0.050	0.43	208.28	1	0.12
Dichlorodifluoromethane (freon 12)	ND	ND	0.050	0.25	120.91	1	0.20
Ethanol	ND	ND	0.050	0.09	46.07	1	0.53
Ethyl Acetate	ND	ND	0.050	0.18	88.11	1	0.28
Ethylbenzene	ND	ND	0.050	0.22	106.17	1	0.23
Heptane	ND	ND	0.050	0.20	100.20	1	0.24
Hexachlorobutadiene	ND	ND	0.050	0.53	260.76	1	0.09
Hexane	ND	ND	0.050	0.18	86.18	1	0.28
Isopropyl Alcohol	ND	ND	0.050	0.12	60.10	1	0.41
M/P Xylenes	ND	ND	0.050	0.22	106.17	1	0.23
Methylene Chloride	ND	ND	0.050	0.17	84.93	1	0.29
Methylmethacrylate	ND	ND	0.050	0.20	100.12	1	0.24
MTBE	ND	ND	0.050	0.18	88.15	1	0.28
O-Xylene	ND	ND	0.050	0.22	106.17	1	0.23
Propene	ND	ND	0.050	0.09	42.08	1	0.58
Styrene	ND	ND	0.050	0.21	104.15	1	0.23
Tetrachloroethene	ND	ND	0.050	0.34	165.83	1	0.15
Tetrahydrofuran	ND	ND	0.050	0.15	72.11	1	0.34
Toluene	ND	ND	0.050	0.19	92.14	1	0.27
trans-1,2-Dichloroethene	ND	ND	0.050	0.20	96.94	1	0.25
trans-1,3-Dichloropropene	ND	ND	0.050	0.23	110.97	1	0.22
Trichloroethene	ND	ND	0.050	0.27	131.39	1	0.19
Trichlorofluoromethane (freon 11)	ND	ND	0.050	0.28	137.37	1	0.18
Vinyl Acetate	ND	ND	0.050	0.18	86.09	1	0.28
Vinyl Chloride	ND	ND	0.050	0.13	62.50	1	0.39



39 Spruce Street, 2nd Floor
 East Longmeadow, MA 01028
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APH COMPOUNDS

1,2,3-Trimethylbenzene	ND	ND	0.94	4.62	120.19	1	0.20
1,3 Butadiene	ND	ND	0.94	2.08	54.09	1	0.45
1,3,5-Trimethylbenzene	ND	ND	0.94	4.62	120.19	1	0.20
1-Ethyl-3-Methylbenzene	ND	ND	0.94	4.62	120.19	1	0.20
1-Methylnaphthalene	ND	ND	0.94	5.47	142.20	1	0.17
2,3-Dimethylheptane	ND	ND	0.94	4.93	128.26	1	0.19
2,3-Dimethylpentane	ND	ND	0.94	3.85	100.20	1	0.24
2-Methylnaphthalene	ND	ND	0.94	5.47	142.20	1	0.17
Benzene	ND	ND	0.94	3.00	78.11	1	0.31
Butyl Cyclohexane	ND	ND	0.94	5.39	140.27	1	0.17
Cyclohexane	ND	ND	0.94	3.24	84.16	1	0.29
Decane	ND	ND	0.94	5.47	142.28	1	0.17
Dodecane	ND	ND	0.94	6.55	170.33	1	0.14
Ethylbenzene	ND	ND	0.94	4.08	106.17	1	0.23
Heptane	ND	ND	0.94	3.85	100.20	1	0.24
Hexane	ND	ND	0.94	3.31	86.18	1	0.28
Hexyl Cyclohexane	ND	ND	0.94	6.47	168.32	1	0.15
Indene	ND	ND	0.94	4.47	116.16	1	0.21
Isopentane	ND	ND	0.94	2.77	72.15	1	0.34
Isopropylbenzene(Cumene)	ND	ND	0.94	4.62	120.19	1	0.20
m/p -Xylenes	ND	ND	0.94	4.08	106.17	1	0.23
Methyl-tert-butylether	ND	ND	0.94	3.39	88.15	1	0.28
Naphthalene	ND	ND	0.94	4.93	128.17	1	0.19
Nonane	ND	ND	0.94	4.93	128.26	1	0.19
Octane	ND	ND	0.94	4.39	114.23	1	0.21
o-Xylene	ND	ND	0.94	4.08	106.17	1	0.23
P-Iso-Propyl Toluene	ND	ND	0.94	5.16	134.22	1	0.18
Toluene	ND	ND	0.94	3.54	92.14	1	0.27
Toluene-D8	ND	ND	0.94	3.85	100.19	1	0.24
Undecane	ND	ND	0.94	6.01	156.31	1	0.16



39 Spruce Street, 2nd Floor
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EXTRA COMPOUNDS

1,1,1,2-tetrachloroethane	ND	ND	0.091	0.6247	167.85	1	0.15
1,2-Dibromo-3-chloropropane	ND	ND	0.065	0.6283	236.33	1	0.10
1,3-Dichloropropane	ND	ND	0.135	0.6238	112.99	1	0.22
1-Methylnaphthalene	ND	ND	0.107	0.6223	142.20	1	0.17
2,2,4-Trimethylpentane	ND	ND	0.134	0.6260	114.23	1	0.21
2-Methylnaphthalene	ND	ND	0.107	0.6223	142.20	1	0.17
Acrylonitrile	ND	ND	0.288	0.6250	53.06	1	0.46
Butylbenzene	ND	ND	0.114	0.6258	134.22	1	0.18
Cumene	ND	ND	0.127	0.6243	120.19	1	0.20
Hexylcyclohexane	ND	ND	0.091	0.6265	168.32	1	0.15
Indane	ND	ND	0.129	0.6235	118.18	1	0.21
Indene	ND	ND	0.132	0.6271	116.16	1	0.21
Methyl Acetate	ND	ND	0.206	0.6241	74.08	1	0.33
Methylcyclohexane	ND	ND	0.156	0.6265	98.19	1	0.25
Naphthalene	ND	ND	0.119	0.6238	128.17	1	0.19
P-cymene	ND	ND	0.114	0.6258	134.22	1	0.18
Propylbenzene	ND	ND	0.127	0.6243	120.19	1	0.20
Sec-butylbenzene	ND	ND	0.114	0.6258	134.22	1	0.18
Tert-butylbenzene	ND	ND	0.114	0.6258	134.22	1	0.18
Thiophene	ND	ND	0.182	0.6263	84.14	1	0.29

OTHER COMPOUNDS

2-Chloro-pyridine	ND	ND	0.20	0.93	113.54	1	0.22
2,6-Dichloro-pyridine	ND	ND	0.20	1.19	144.97	1	0.17
tert-Butyl Alcohol	ND	ND	0.20	0.61	74.10	1	0.33