



EA Engineering, Science, and Technology, Inc.

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25 September 2009

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

RE: Quarterly O&M Status Report No. 8
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 14687.01

Dear Mr. Martella:

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

This O&M Report summarizes recently completed Site activities related to compliance subslab vapor and indoor air sampling from the period between June 2009 and August 2009.

If you have any questions or require additional information, please contact me at 401-736-3440, Ext. 202.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

Mark K. Speer, P.E.
Senior Engineer

cc: M. Dunham, Prov. Dept. of Public Schools
T. Deller, Prov. Redevelopment Agency
J. Fernandez, City of Prov. Law Department
J. Boehnert, Partridge, Snow, & Hahn
T. Slater, Representative
Knight Memorial Library Repository
A. Sepe, Prov. Dept. of Public Property
S. Fischbach, RI Legal Services
J. Ryan, Partridge, Snow, & Hahn
R. Dorr, Neighborhood Resident
J. Pichardo, Senator
Principal Torchon, Adelaide High School

Quarterly O&M Status Report No. 8

**Summarizing Sub-Slab Depressurization and
Indoor Air Monitoring and Sampling Activities**

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

Prepared for

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

Prepared by

EA Engineering, Science, and Technology, Inc.
2350 Post Road
Warwick, Rhode Island 02886
(401) 736-3440

September 2009
EA Project No. 14687.01

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1. INTRODUCTION AND BACKGROUND

On behalf of the City of Providence School Department (the City), EA Engineering, Science, and Technology, Inc. (EA) has prepared this Quarterly Operations and Maintenance (O&M) Status Report No. 8 for the Parcel B area of the former Gorham Manufacturing site in Providence, Rhode Island, formerly referred to as the Adelaide Avenue High School and now referred to as the Alvarez High School site (the Site). A Site Location Map is provided as Figure 1. This report has been prepared to satisfy provision 6(f) of the Rhode Island Department of Environmental Management (RIDEM) Order of Approval (OA) issued in June 2006, as amended in February and July 2007 and July 2009. For the purposes of this report, the original and the amended Orders of Approval will collectively be referred to as the Amended OA.

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

This report summarizes the O&M, monitoring, and sampling activities completed at the Site for the 3-month period from June 2009 through August 2009 (Quarterly Reporting Period No. 8), and also includes an overall evaluation of volatile organic compound (VOC) concentrations within soil gas as they pertain to a potential “rebound effect” at the Site. Please refer to the Quarterly O&M Status Reports No. 1 through No. 7 for information regarding monitoring and sampling at the Site during the previous quarters. The RACR and previously submitted monthly correspondence contain details regarding the results of the monitoring and sampling program for the period between March and August 2007.

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

2.1 SSD SYSTEM

During this reporting period, the following SSD System performance parameters were inspected and/or monitored at the frequencies indicated below in accordance with the Amended OA to evaluate system performance:

- Monthly sub-slab vacuum monitoring at 11 monitoring locations, as illustrated on the As-Built Sub-Slab Monitoring & Sampling Plan included in Appendix C
- Monthly inspections and monitoring of rooftop fans (air velocity and vacuum) to verify proper operation
- Continuous electronic monitoring (with automatic alarm notification via audible signal and phone notification) at each of three SSD System extraction fans to ensure continuous operation.

All vacuum measurements taken at each interior and perimeter sub-slab monitoring/sampling location were between -0.01 and -0.17 in. of water column, indicating continuous negative pressure values beneath the building slab.

Inspections and monitoring of all other system equipment revealed proper system operation, and no equipment shutdowns, failures, alarms, or interruptions of any type occurred during this reporting period. The continuous, verified zone of negative pressure beneath the school's concrete slab, along with the monthly inspections and continuous monitoring of both the indoor air monitoring system and the sub-slab depressurization system, confirms proper operation of the SSD System during this reporting period.

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

2.2 INDOOR METHANE MONITORING SYSTEM

During this reporting period, indoor methane concentrations were continuously monitored by an indoor methane monitoring system (equipped with automatic alarm notification via audible signal and phone notification) within the school at eight RIDEM-approved locations (refer to the Indoor Air Sampling and Methane Monitoring System Diagram included in Appendix B). In addition, the methane monitoring system was inspected and filters are replaced on a regular basis. The indoor methane monitoring system operated continuously throughout this reporting period with no equipment shutdowns, failures, alarms, or interruptions of any type, and no methane was detected during any of the supplemental monthly indoor methane monitoring events.

In June 2009, filter discs at each of the eight continuous methane sensors were replaced in accordance with a quarterly frequency schedule. The next filter replacement is scheduled for September 2009.

No other maintenance or repairs to the methane monitoring system or components were performed or required during this reporting period.

2.3 AMBIENT OUTDOOR AND INDOOR AIR SAMPLING

One outdoor ambient air sample and eight indoor air samples within the school at RIDEM-approved sampling locations were collected and analyzed for VOCs via Method TO-15 SIM (Selective Ion Monitoring) on 22 July 2009. The outdoor ambient sample was collected from the west corner of the school (upwind) to ensure system effluent is not captured in the sample. The sampling frequency has been reduced to quarterly sampling, per Order of Approval Addendum 3, prepared by RIDEM and dated 19 July 2009 (Appendix B). Sampling locations are shown on the Indoor Air Sampling and Methane Monitoring System Diagram provided in Appendix B. In accordance with the Amended OA, the indoor air sampling results were compared to the State of Connecticut's Draft Proposed Indoor Residential Targeted Air Concentrations (CT RTACs). The laboratory reporting limits (RLs) for several VOCs reported via TO-15 analysis, even though analyzed via the SIM procedure are greater than the respective CT RTACs. In accordance with the Amended OA, EA contacted the laboratory prior to sample analysis to verify that the RLs provided would be the lowest currently achievable limits. A RL verification letter from Alpha Analytical Laboratory is provided in Appendix E. A data summary table and copies of the laboratory data reports associated with these two sampling events are provided in Appendix C. As detailed below, one contaminant was detected above the CT RTACs in each month of this quarter. All other compounds analyzed were below the applicable CT RTACs for all samples collected on 22 July 2009.

Carbon tetrachloride, a documented background ambient compound present at the Site and typical in urban communities, has consistently been detected in ambient outdoor air and inside the school during every sampling event completed at the Site at concentrations ranging between 0.19 to 0.77 $\mu\text{g}/\text{m}^3$. Similarly, during this reporting period the ambient outdoor and indoor air concentrations of carbon tetrachloride ranged between 0.578 and 0.597 $\mu\text{g}/\text{m}^3$. Based upon discussions and guidance provided by the Rhode Island Department of Health and RIDEM Office of Waste Management and Office of Air Resources, these carbon tetrachloride results do not constitute Indoor Air Action Level exceedances for the Site since they are consistent with documented background concentrations.

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

A total of 12 RIDEM-approved sub-slab sampling locations exist at the Site. In accordance with the Amended OA, six sub-slab vapor samples were collected in accordance with a RIDEM-approved (Amended OA) rotating sampling schedule and analyzed for VOCs via Method TO-15 SIM on 22 July 2009. The sub-slab data is summarized in Appendix D, along with copies of the laboratory data reports associated with these sampling events.

In accordance with the Amended OA, the sub-slab data has been evaluated, and there is no evidence of increasing VOCs (i.e., VOC rebound) beneath the school.

2.5 SUMMARY OF ROOFTOP VOC EMISSIONS

The Amended OA requires that rooftop VOC sampling be completed on an annual basis. The previous rooftop VOC sampling event was completed in June 2008 and was summarized in correspondence submitted to RIDEM in October 2008. Please refer to the previously submitted Quarterly Status Report No. 4 (dated October 2008) for more details regarding the rooftop VOC data.

The 2009 annual rooftop effluent VOC sampling event was scheduled for June 2009, and then rescheduled to July 2009 to accommodate the revised quarterly sampling schedule. However, due to an EA oversight, the sampling was conducted on 11 September 2009.

Previous roof-top effluent sampling rounds conducted in March 2007 (immediately after SSD system startup), June 2007, and June 2008 indicated compliance with all Air Pollution Control Permit Applicability Thresholds. In general, the VOC concentrations in the rooftop effluent associated with the September 2009 sampling round indicate continuance of the decreasing trend of VOC concentrations in subsurface soils and do not exceed the Air Pollution Control Permit Applicability Thresholds. Tabulation of the data and the roof-top sampling analytical report is provided as Appendix E.

2.6 CONCLUSIONS

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

- RIDEM has provided Order of Approval Addendum 3, requiring quarterly, rather than monthly, indoor air and subslab vapor sampling.
- Analytical results from indoor air sampling conducted this quarter indicate no contaminants present above the CT RTACs other than Carbon Tetrachloride, a documented background contaminant.
- Analytical results from rooftop fan effluent sampling indicate continuance of decreasing trends of subslab VOC concentrations.
- There is no evidence that soil vapor intrusion into the Alvarez High School is occurring.
- There is no evidence of “VOC rebound” in soil gas beneath the school.
- The continuous operation of the SSD System, with no equipment malfunctions or alarm conditions, and confirmation of continuous sub-slab vacuum beneath the school

illustrates ongoing, effective operation of the SSD System and that no soil vapor intrusion pathway exists at the school while the SSD System is operational.

- The continuous operation of the indoor air methane monitoring system with no equipment malfunctions or alarm conditions illustrates ongoing, effective operation of the continuous indoor methane monitoring system.
- No SSD System modifications or other actions to address current site conditions are warranted or proposed at this time.

3. FUTURE ACTIVITIES AND NEXT QUARTERLY SUMMARY REPORT

During the next quarterly status reporting period ending 30 November 2009, the following activities will be completed in accordance with the Amended OA:

- Continuous indoor methane monitoring;
- Continuous monitoring of the operational status of the three rooftop fans;
- Monthly site inspections and monitoring using a photo-ionization detector with part-per-billion sensitivity;
- Collection of air samples from eight indoor locations, one ambient location, and six sub-slab monitoring points in October 2009.

These activities will be summarized in the next status report (Quarterly Status Report No. 9), expected to be submitted by the end of December 2009.

Appendix A
O&M Field Forms

Adelaide Avenue School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 6/22/2009

Performed by: DMA

PID/Methane Calibration? US Environmental

(yes/no)

Date of last Methane Sensor Filter Replacement: 3/1/2009

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

General Status of SSD System: On-Line

General Status of Methane Monitoring System: On-Line

Eng Cap/Fence Inspection Performed/Notes: Intact - No deficiencies noted / Monthly Monitoring Event - No sampling took place during this event.

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppm)	Indoor Sensor (ppm)	Methane Monitoring		Air/Vapor Sample Collection			Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc. ... continue on separate sheet if needed)
					(% Gas)	(% LEL)	Summa Can ID	Controller ID	Start Time (Inches Hg)	
Gymnasium	NA	NA	0	0						
Cafeteria	NA	NA	0	0						
Kitchen Storage Room	NA	NA	0	0						
Elevator Hallway	NA	NA	0	0						
Room 145	NA	NA	0	0						
Room 152	NA	NA	0	0						
Room 118	NA	NA	0	0						
Room 110	NA	NA	0	0						
MP-1	0.06	NA	1.473	NA						
MP-2	0.07	NA	0.127	NA						
MP-3	0.07	NA	2.6	NA						
MP-4	0.03	NA	0.066	NA						
MP-5	0.10	NA	0.329	NA						
MP-6	0.08	NA	21.2	NA						
MP-7	0.05	NA	0.127	NA						
MP-8	0.10	NA	0.038	NA						
IMP-1	0.02	NA	0.116	NA						
IMP-2	0.02	NA	0	NA						
IMP-3	0.02	NA	0	NA						
Roof-Top Fan 1	2.00	1286	0.012	NA						
Roof-Top Fan 2	3.80	1654	0.006	NA						
Roof-Top Fan 3	Broken	1326	1.2	NA						
Ambient Outdoor Air	NA	NA	0	NA						

NA: not applicable.
 NM: not monitored on this date.
 * RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Adelaide Avenue School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 7/22/2009 Performed by DMA/DEB

PID/Methane Calibration? US Environmental (yes/no)

Date of last Methane Sensor Filter Replacement: 6/9/2009 Replaced this O&M Visit? No (yes/no)

General Status of SSD System: On-line

General Status of Methane Monitoring System: On-line

Eng Cap/Fence Inspection Performed/Notes: No deficiencies noted

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring PID (ppm)	Indoor Sensor (ppm)	Methane Monitoring		Summa Can ID	Air/Vapor Sample Collection			Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc ... continue on separate sheet if needed)	
					(% Gas)	(% LEL)*		Start Time (Inches Hg)	Controller ID	Start Time (Inches Hg)		End Time (Inches Hg)
Gymnasium	NA	NA	0.000	0	0	0	130	0406	8:47	-30+	9:17	-2
Cafeteria	NA	NA	0.000	0	0	0	360	0024	8:48	-30+	9:18	-2
Kitchen Storage Room	NA	NA	0.000	0	0	0	346	0265	8:49	-30+	9:19	-4
Elevator Hallway	NA	NA	0.000	0	0	0	147B	0090	8:50	-30+	9:20	-1
Room 145	NA	NA	0.000	0	0	0	389	0377	9:09	-30+	9:38	-7
Room 152	NA	NA	0.000	0	0	0	541	0368	9:10	-29	9:39	-3
Room 118	NA	NA	0.000	0	0	0	260	0272	9:18	-30+	9:47	-4
Room 110	NA	NA	0.000	0	0	0	470	0366	9:20	-28	9:50	-7
MP-1	0.05	NA	3.863	NA	0	0	209	0376	9:01	-30+	9:28	-10
MP-2	0.06	NA	0.000	NA	0	0	-	-	-	-	-	-
MP-3	0.04	NA	0.000	NA	0	0	483	0151	10:19	-30+	10:48	-10
MP-4	0.06	NA	0.000	NA	0	0	405	0267	10:28	-30+	10:58	-6
MP-5	0.08	NA	0.000	NA	0	0	-	-	-	-	-	-
MP-6	0.04	NA	0.000	NA	0	0	-	-	7:02	-30+	7:30	-4
MP-7	0.17	NA	0.000	NA	0	0	-	-	-	-	-	-
MP-8	0.10	NA	0.000	NA	0	0	-	-	-	-	-	-
IMP-1	0.04	NA	0.000	NA	0	0	141	0307	10:37	-30+	11:04	-7
IMP-2	0.02	NA	2.000	NA	0	0	179	0052	10:41	-29	11:07	-5
IMP-3	0.02	NA	0.000	NA	0	0	-	-	-	-	-	-
Roof-Top Fan 1	-2.00	1180	0.059	NA	0	0	-	-	-	-	-	-
Roof-Top Fan 2	-3.00	2215	0.023	NA	0	0	-	-	-	-	-	-
Roof-Top Fan 3	-2.3	1150	0.000	NA	0	0	-	-	-	-	-	-
Ambient Outdoor Air	NA	NA	0.000	NA	0	0	535	0349	7:00	-30+	7:27	-5

NA: not applicable.
 NS: not monitored on this date
 * RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol.

Taken from west corner (westerly wind) 7/23

Adelaide Avenue School - SSD & Interior Methane Monitoring System O&M Form

Date of O&M: 8/31/2009

Performed by RGM

PID/Methane Calibration? US Environmental (yes/no)

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

Date of last Methane Sensor Filter Replacement: 6/9/2009

General Status of SSD System: On-line

General Status of Methane Monitoring System: On-line

Eng. Cap/Fence Inspection Performed/Notes: No deficiencies noted

Monitoring/ Sampling Location	Sub-slab or gauge vacuum	Air Velocity (fpm)	VOC Monitoring		Methane Monitoring			Air/Vapor Sample Collection				Comments/Notes (Ambient weather conditions, status of HVAC, possible monitoring/sampling interferences, etc. ... continue on separate sheet if needed)	
			PID (ppm)	Indoor Sensor (ppm)	(% Gas)	(% LEL)*	Summa Can ID	Controller ID	Start Time (Inches Hg)	Start Vac (Inches Hg)	End Time		End Vac (Inches Hg)
Gymnasium	NA	NA	0.000										
Cafeteria	NA	NA	0.000										
Kitchen Storage Room	NA	NA	0.006										
Elevator Hallway	NA	NA	0.011										
Room 145	NA	NA	0.006										
Room 152	NA	NA	0.000										
Room 11B	NA	NA	0.002										
Room 110	NA	NA	0.004										
MP-1	0.07	NA	9.310	NA									
MP-2	0.05	NA	0.017	NA									
MP-3	0.01	NA	1.546	NA									
MP-4	0.03	NA	4.183	NA									
MP-5	0.06	NA	0.068	NA									
MP-6	0.05	NA	7.481	NA									
MP-7	0.02	NA	0.125	NA									
MP-8	0.07	NA	65.800	NA									
IMP-1	0.02	NA	0.027	NA									
IMP-2	0.04	NA	0.300	NA									
IMP-3	0.03	NA	0.022	NA									
Roof-Top Fan 1	2.20	2596	0.077	NA									
Roof-Top Fan 2	3.80	2263	0.022	NA									
Roof-Top Fan 3	2.3	1705	0.188	NA									
Ambient Outdoor Air	NA	NA	0.009	NA									

NA: not applicable.
 NM: not monitored on this date.
 NS: not sampled on this date.
 * RIDEM Action Level for methane %LEL beneath the building is 10% and within the building is 1%. If these methane levels are exceeded, immediately notify EA Project Manager to initiate response protocol

Appendix B

**Order of Approval Addendum 3
RIDEM, 14 July 2009**



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

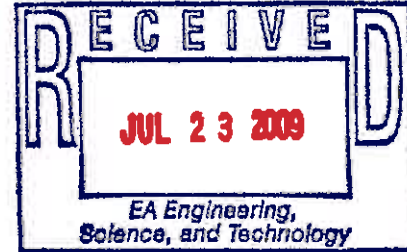
235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

CERTIFIED MAIL

July 14, 2009

Alan Sepe, Acting Director
Department of Public Properties
City of Providence
25 Dorrance Street
Providence, RI 02903



RE: Order of Approval Addendum 3, Providence Public High School Site – Parcel B
Formerly a portion of the Gorham/Textron Dump site, 333 Adelaide Avenue, Providence
City of Providence Tax Assessor's Office Plat 51, Lot 323, Parcel B
Case No. 2005-029 (Formerly part of Case No. 97-030)

Dear Mr. Sepe:

Enclosed please find the Order of Approval Addendum 3 (OA Addendum 3) for the remediation plan for the above referenced facility. Please review the stipulations of the attached OA Addendum 3 thoroughly to ensure your compliance with the requirements. The original Order of Approval (Order) dated June 9, 2006, the Order of Approval Addendum 1 (OA Addendum 1) dated February 27, 2007, the Order of Approval Addendum 2 (OA Addendum 2) dated July 26, 2007, and this OA Addendum 3 (collectively the Amended Orders) place primary responsibility for the construction, operation, maintenance and monitoring of the approved Remedial Action Work Plan (RAWP) and its associated remedy on the City of Providence (the City). In order to enable the Department to monitor the City's compliance with the RAWP, the Amended Orders require the City to notify the Department of any condition that is non-compliant with the Amended Orders, or that constitutes an interruption of the RAWP. In order to maintain compliance with the Amended Orders and the RAWP, the City's responsibilities under the Amended Orders necessarily include the responsibility to respond to and correct non-compliant conditions in a timely, proactive and professional manner that minimizes non-compliance with the Amended Orders and RAWP, and protects human health and the environment.

This OA Addendum 3 shall be recorded in the land evidence records of the City of Providence within 30 days of execution as required by law, and a recorded copy must be returned to the Department within 7 days of recording. If you have any questions regarding this matter, please contact me at (401) 222-2797 x7109.

Sincerely,

Joseph T. Martella II
Senior Engineer
Office of Waste Management

cc: Terrence D. Gray, P.E., Assistant Director, RIDEM/AW&C
Leo Hellested, P.E., Chief, RIDEM/OWM
Kelly J. Owens, RIDEM/OWM
John Langlois, Esq., RIDEM/OLS
Barbara Morin, RIDEM/OAR
Robert Vanderslice, PhD, RIDOH
Tammie A. McKae, ATSDR
Hon. David N. Cicilline, Mayor, City of Providence
Senator Juan M. Pichardo, District 2
Representative Thomas Slater
Councilman Peter S. Mancini, President
Councilman Leon F. Tejada, Ward 8
Thomas Deller, City of Providence
Thomas M. Brady, Superintendent, Providence Schools
Robert Wise, President – Providence School Bd.
Mark K. Speer, EA
Gregory L. Simpson, Textron
Robert Dorr
Knight Memorial Library – Project Repository

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

In the matter of the application for a Remedial Action Approval at: Case No. 2005-029
Providence Public High School Site – Parcel B
(Formerly a portion of the Gorham/Textron Dump site)
333 Adelaide Avenue, Providence, RI, Plat 51, Lot 323 (the Site)

ORDER OF APPROVAL ADDENDUM 3

In the above entitled matter the Rhode Island Department of Environmental Management (the Department), issued to the City of Providence (the City), in its capacity as owner and Responsible Party for the remediation of property located at 333 Adelaide Avenue, Providence, an Order of Approval (Order) dated June 9, 2006, a first Order of Approval Addendum (OA Addendum 1) dated February 27, 2007, and a second Order of Approval Addendum (OA Addendum 2) dated July 26, 2007.

On March 4, 2008, the Department received a written request from EA Engineering, Science, and Technology, Inc. (EA), to change the City's indoor air and sub slab vapor sampling frequency and amend the requirements of OA Addendum 2. In addition, on January 29, 2009, the Department met with representatives of EA to discuss the ongoing operation of the system and the air and soil vapor data results collected up to that date. Based upon discussions at that meeting, the Department requested a revised submittal detailing the City's request, including documentation demonstrating that the system has been operating properly, and supporting the requested reduction in sampling frequency. The following document was subsequently filed by EA on behalf of the City:

- Order of Approval Amendment Request, Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island, prepared by EA, and dated April 27, 2009.

Based on review of the above referenced document, and additional sampling data submitted to date, the Department has concluded that an additional modification to the prior Order is warranted.

Subject to the conditions herein, the listed document, as well as the documents listed in the Order dated June 9, 2006, the OA Addendum 1 dated February 27, 2007, and the OA Addendum 2 dated July 26, 2007, fulfill the requirements of Section 9.00 (Remedial Action Work Plan) of the Department's Rules and Regulations for the Investigation and Remediation of Hazardous Materials Releases (Remediation Regulations), as amended February 24, 2004, and describe a plan to remediate existing contamination pursuant to 23-19.14-1 et seq. and the Department's Remediation Regulations, in accordance therewith.

It is the Department's intent that all conditions set forth in the Order dated June 9, 2006, OA Addendum 1 dated February 27, 2007, and the OA Addendum 2 dated July 26, 2007, shall remain in full force and effect unless specifically altered by this third Order of Approval Addendum (OA Addendum 3). This OA Addendum 3 continues to place primary responsibility for the construction, operation, maintenance and monitoring of the approved Remedial Action Work Plan (RAWP) and its associated remedy on the City. As the responsible party and performing

party, the City is expected to implement the RAWP in an expeditious and professional manner that prevents non-compliance with the original Order, OA Addendum 1, OA Addendum 2, OA Addendum 3, and the RAWP, and protects human health and the environment. For the convenience of the City and its contractors and consultants, the changes made to the original Order by this OA Addendum 3 have been highlighted below using boldfaced type and include a reference to the original paragraph of the Order as applicable.

Upon consideration thereof, and in accordance with Rule 10.1 (Remedial Action Approvals) of the Remediation Regulations, the Department approves said RAWP to remediate contamination through this OA Addendum 3, subject to the following amended conditions:

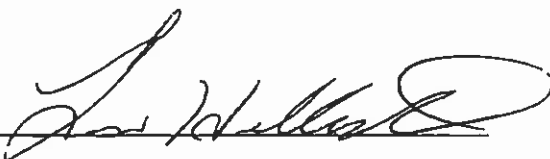
- 1) **All conditions set forth in the Order of Approval dated June 9, 2006, OA Addendum 1 dated February 27, 2007, and OA Addendum 2 dated July 26, 2007, shall remain in full force and effect unless specifically altered by this OA Addendum 3.**
- 2) Sampling and laboratory analysis of all media involved in the Remedial Action shall be conducted in accordance with the requirements of the RAWP, **the original Order, OA Addendum 1, OA Addendum 2, and this OA Addendum 3 [Ref. original Order ¶ 5].**
- 3) The Site remedy as described in the RAWP, original Order, OA Addendum 1, and OA Addendum 2, shall also incorporate the following [Ref. original Order ¶ 6]:
 - a) **A “complete round” of compliance sampling shall include 15 sample locations per sampling event, selected from the network as follows:**
 - i) **One (1) ambient outdoor air sample**
 - ii) **All eight (8) interior sampling locations;**
 - iii) **Four (4) of the eight (8) perimeter sub slab sample collection locations (MP-1 through MP-8), selected on a rotational basis such that each location is sampled at an equal frequency;**
 - iv) **Two (2) of the three (3) centrally located sub slab sample locations (IMP-1 through IMP-3), selected on a rotational basis such that each location is sampled at an equal frequency;**
 - v) **All samples shall be analyzed for volatile organic compounds (VOCs) by EPA TO-15 SIM.**
 - b) **The schedule for periodic compliance sampling and compliance monitoring shall be as follows [Ref. Order ¶ 6.e.iv]:**
 - i) **Starting with the completed April 2009 sampling round, and quarterly thereafter (i.e. the next scheduled quarterly sampling round shall be in July 2009), a “complete round” of VOC compliance sampling and analysis shall be performed at the locations identified in item a) above.**
 - ii) **Methane monitoring shall continue to be performed monthly at all interior and sub slab locations.**
 - iii) **In the event that a remedial Action Level exceedance is detected at an indoor air sampling location, the City shall conduct an evaluation to determine the source of**

- the exceedance. In the event that the source of the exceedance cannot be determined, or is determined to be resultant from soil vapor intrusion, then the sampling frequency for the non-compliant indoor sampling location and the closest sub-slab sampling location shall be adjusted to monthly until the problem is resolved and the concentrations measured at the non-compliant indoor sampling location are demonstrated to be compliant with the remedial Action Levels for a period of three (3) consecutive months.
- iv) During any period that the indoor air sampling frequency is adjusted to monthly, the City shall submit a monthly comment letter to the Department documenting the results of any additional sampling and monitoring conducted during the prior month.
 - v) The City shall continue to provide remedial Action Level exceedance notifications to the Department in accordance with the requirements of the original and amended Orders and to promptly investigate the potential source of any reported exceedance.
- c) Periodic monitoring of methane and compliance sampling and analysis of VOCs shall continue at the specified rate as long as a source of contamination exists, unless otherwise authorized by the Department in written correspondence to the City [Ref. Order ¶ 6.e.ix].
- 4) The City shall have this OA Addendum 3 recorded in the City of Providence, land evidence records of the subject property within thirty (30) days of execution of this OA Addendum 3 [Ref. Order ¶ 23].

Subject to future revisions or amendments by the Department, the original Order, OA Addendum 1, OA Addendum 2, and this OA Addendum 3 shall remain in full force and effect for as long as said RAWP shall be operated and maintained in a condition satisfactory to the Department. Failure to comply with all points outlined in the Department approved RAWP and stipulated in the original Order, OA Addendum 1, OA Addendum 2, and this OA Addendum 3 shall result in the issuance of a Notice of Violation and Order against the City.

The original Order, OA Addendum 1, OA Addendum 2, and this OA Addendum 3 shall be subject to modification or revocation in accordance with law.

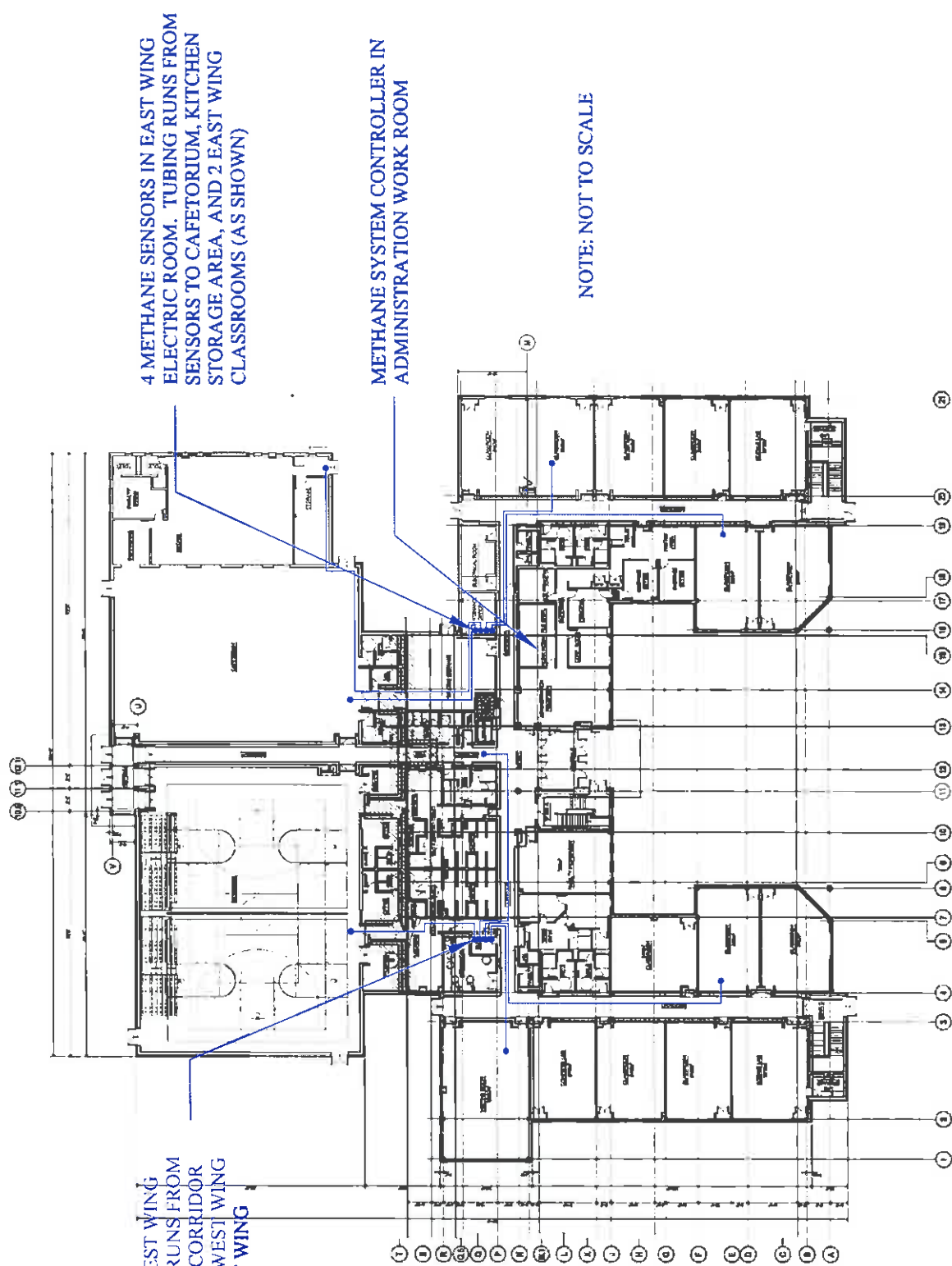
Entered as an approval by the Department this 14th day of July, 2009.

By: 

Leo Hellested, P.E.
Chief, Office of Waste Management
Department of Environmental Management

Appendix C

Indoor and Ambient Outdoor Air Analytical Summary and Lab Report



4 METHANE SENSORS IN WEST WING ELECTRIC ROOM. TUBING RUNS FROM SENSORS TO GYMNASIUM CORRIDOR ADJACENT TO ELEVATOR, WEST WING MEETING ROOM AND WEST WING CLASSROOM (AS SHOWN)

4 METHANE SENSORS IN EAST WING ELECTRIC ROOM. TUBING RUNS FROM SENSORS TO CAFETERIUM, KITCHEN STORAGE AREA, AND 2 EAST WING CLASSROOMS (AS SHOWN)

METHANE SYSTEM CONTROLLER IN ADMINISTRATION WORK ROOM

NOTE: NOT TO SCALE

PROJECT NORTH



DESIGNED BY	PMG	DATE	12-8-06	PROJECT NO.	6196501	FILE NAME	6196501-ATT-B
CHECKED BY	PMG	SCALE	NIS	DRAWING NO.		FIGURE	ATT B

METHANE MONITORING SYSTEM LOCATION DIAGRAM
GORHAM HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

ATTACHMENT B
FIGURE

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - July 2008

Volatile Organic Compounds	Sampling Date	CT Data Programmed Indoor Residential Target Air Concentration (ppm)	Maximum Storage Bin	Calibrate	Drymass	Exhaust	Room 118	Room 119	Room 120	Main Corridor (Room 115)	Room 121	Archival	Checkers
Dichlorodifluoromethane	15-Mar-07		0.170	U	0.170	U	0.170	U	0.170	U	0.170	U	0.170
	22-Mar-07		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	28-Mar-07		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	29-Mar-07		0.130	U	0.130	U	0.130	U	0.130	U	0.130	U	0.130
	30-Jun-07		0.170	U	0.170	U	0.170	U	0.170	U	0.170	U	0.170
	22-Aug-07	None	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	20-Sep-07		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	9-Oct-07		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	8-Dec-07		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	15-Feb-08		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	15-Feb-08		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	27-Mar-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	18-Apr-08		0.088	U	0.088	U	0.088	U	0.088	U	0.088	U	0.088
	29-May-08		0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100
	27-Jun-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	31-Jul-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	20-Sep-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	18-Oct-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	21-Nov-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	20-Dec-08		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
	21-Jan-09		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096
28-Feb-09		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096	
28-Mar-09		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096	
27-Jul-09		0.096	U	0.096	U	0.096	U	0.096	U	0.096	U	0.096	
Dichlorodifluoromethane	15-Mar-07		2.500	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400	2.400
	22-Mar-07		2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620
	28-Mar-07		3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030
	29-Mar-07		1.640	1.760	1.880	1.960	2.040	2.120	2.200	2.280	2.360	2.440	2.520
	30-Jun-07		2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450	2.450
	22-Aug-07		2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370	2.370
	20-Sep-07		2.100	2.100	2.100	2.100	2.100	2.100	2.100	2.100	2.100	2.100	2.100
	9-Oct-07		2.310	2.310	2.310	2.310	2.310	2.310	2.310	2.310	2.310	2.310	2.310
	8-Dec-07		3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060	3.060
	15-Feb-08		2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700
	15-Feb-08		3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010	3.010
	27-Mar-08		1.860	1.860	1.860	1.860	1.860	1.860	1.860	1.860	1.860	1.860	1.860
	18-Apr-08		2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620	2.620
	29-May-08		2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010	2.010
	31-Jul-08		1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700
	20-Sep-08		2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210	2.210
	18-Oct-08		3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030
	21-Nov-08		3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030	3.030
	20-Dec-08		3.600	3.600	3.600	3.600	3.600	3.600	3.600	3.600	3.600	3.600	3.600
	21-Jan-09		3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140
	28-Feb-09		3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140
27-Jul-09		3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	3.140	
Ethylbenzene	15-Mar-07		140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000	140.000
	22-Mar-07		8.580	11.800	15.000	18.200	21.400	24.600	27.800	31.000	34.200	37.400	40.600
	28-Mar-07		8.310	14.900	21.500	28.100	34.700	41.300	47.900	54.500	61.100	67.700	74.300
	29-Mar-07		3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
	30-Jun-07		2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
	22-Aug-07		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	20-Sep-07		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	9-Oct-07		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	8-Dec-07		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	15-Feb-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	15-Feb-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	27-Mar-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	18-Apr-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	29-May-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	31-Jul-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	20-Sep-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	18-Oct-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	21-Nov-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	20-Dec-08		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	21-Jan-09		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
	28-Feb-09		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470
27-Jul-09		6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	6.470	

Summary of Indoor Ambient Outdoor Air Sampling Data - Adalaine Avenue School Project - Volatile Organic Compounds
March 2007 - July 2008

Sample Date	Kitbox Storage Bin	Coludance	Greenland	8 Barriers Walkway	Room 118	Room 110	Months Care (Rm 145)	Room 132	Amidex Checkers	Unit
15-Mar-07	110.000	140.000	190.000	130.000	31.000	110.000	170.000	140.000	2.160	U
22-Mar-07	14.100	18.000	140.000	19.000	31.000	41.000	64.000	41.000	0.000	U
28-Apr-07	9.900	19.100	142.000	41.000	31.000	6.000	64.000	15.000	0.172	U
21-May-07	8.000	18.000	142.000	41.000	31.000	6.000	7.070	15.000	0.172	U
19-Jun-07	8.000	18.000	4.200	4.100	2.200	1.600	1.600	7.300	0.920	U
19-Jun-07	8.000	5.000	5.000	4.200	3.700	1.600	2.400	3.800	1.120	U
22-Aug-07	1.400	1.700	1.600	1.770	0.930	1.610	1.610	0.870	0.530	U
20-Sep-07	4.920	2.110	8.810	2.280	1.870	3.240	1.440	1.670	1.160	U
9-Oct-07	1.760	1.810	3.820	1.810	2.410	1.920	2.420	1.680	1.330	U
7-Nov-07	2.060	1.840	1.840	1.600	1.820	1.820	1.720	1.440	0.410	U
8-Dec-07	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	0.800	U
8-Jan-08	4.200	3.170	3.170	3.170	3.170	3.170	3.170	3.170	3.170	U
8-Feb-08	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	U
15-Mar-08	8.420	4.040	4.040	4.160	1.540	0.860	0.860	3.700	0.700	U
25-Mar-08	4.600	4.000	4.000	4.160	1.540	0.860	0.860	1.020	1.440	U
28-Apr-08	0.820	0.790	2.110	3.900	3.790	4.070	4.210	3.660	0.460	U
27-May-08	0.820	0.820	1.330	3.850	0.820	1.960	1.020	3.860	0.460	U
31-Jun-08	2.760	2.020	3.200	3.850	4.110	3.640	4.820	3.020	2.410	U
21-Jul-08	5.200	5.960	7.900	7.900	8.920	5.900	7.900	5.440	4.660	U
28-Aug-08	1.900	1.900	2.580	4.100	1.900	1.900	1.900	2.300	1.900	U
27-Oct-08	5.400	1.900	1.900	2.000	2.000	1.900	1.900	1.900	1.900	U
15-Nov-08	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	U
15-Nov-08	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	U
21-Jan-09	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	1.900	U
25-Feb-09	8.110	4.060	3.990	3.540	3.900	4.730	6.870	6.060	5.310	U
29-Apr-09	0.770	0.940	0.670	0.704	1.050	0.940	1.114	1.110	0.810	U
22-Jun-09	1.550	3.810	2.540	1.130	3.190	3.910	3.880	1.870	0.650	U
15-Mar-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
22-Mar-07	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
24-Apr-07	0.000	0.070	0.070	0.070	0.070	0.000	0.000	0.000	0.000	U
21-May-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
28-Jun-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
30-Jul-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
22-Aug-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
20-Sep-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
18-Oct-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
15-Nov-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
7-Dec-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
8-Jan-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
8-Feb-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
27-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
8-Apr-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
27-May-08	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
28-Jun-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
31-Jul-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
11-Aug-08	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
20-Sep-08	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
30-Sep-08	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
27-Oct-08	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
25-Nov-08	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
16-Dec-08	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
21-Jan-09	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
28-Feb-09	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	U
28-Apr-09	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
22-Jun-09	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	U
15-Mar-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
22-Mar-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
21-Apr-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
28-Jun-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
30-Jul-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
22-Aug-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
20-Sep-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
18-Oct-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
15-Nov-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
7-Dec-07	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
8-Jan-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
8-Feb-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
27-Mar-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
25-Apr-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
21-May-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
31-Jun-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
11-Aug-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
20-Sep-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
30-Sep-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
18-Oct-08	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
21-Jan-09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
26-Apr-09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U
22-Jun-09	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	U

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - July 2008

Variable Organic Compounds No TO-13 Trichloroethane*	Element Date	Kitchen Exhaust Fm	Classroom	Corridor	Cybercafeteria	Gymnasium	6 Exercise Hallway	Ramp 118	Room 110	Middle Cor. (Rm. 445)	Room 152	Auditorium Outdoor	Class	
Volatile Organic Compounds No TO-13 Trichloroethane*	15-Mar-07	0.180	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	22-Mar-07	1.779	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	U	
	26-Apr-07	0.143	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	U	
	31-May-07	0.180	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	7-Jun-07	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	20-Jul-07	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	8-Oct-07	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	7-Nov-07	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	4-Dec-07	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	8-Jan-08	0.180	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	8-Feb-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	27-Mar-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	29-Apr-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	29-May-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	27-Jun-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	31-Jul-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	28-Aug-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	30-Sep-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	27-Oct-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	26-Nov-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	18-Dec-08	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	11-Jan-09	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	21-Feb-09	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	25-Mar-09	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	26-Apr-09	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	U	
	22-Jun-08	0.117	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	U
	Volatile Organic Compounds No TO-13 Trichloroethane*	15-Mar-07	1.500	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	2.700	U
22-Mar-07		1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.870	U	
24-Apr-07		1.760	1.830	1.830	1.830	1.830	1.830	1.830	1.830	1.830	1.830	1.830	U	
21-May-07		0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890	0.890	U	
18-Jun-07		1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	U	
30-Jul-07		1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.485	1.485	U	
23-Aug-07		1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	U	
15-Sep-07		1.205	1.205	1.205	1.205	1.205	1.205	1.205	1.205	1.205	1.205	1.205	U	
7-Oct-07		1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	1.210	U	
31-Oct-07		1.025	1.025	1.025	1.025	1.025	1.025	1.025	1.025	1.025	1.025	1.025	U	
4-Nov-07		1.659	1.659	1.659	1.659	1.659	1.659	1.659	1.659	1.659	1.659	1.659	U	
8-Jan-08		2.125	1.570	1.570	1.570	1.570	1.570	1.570	1.570	1.570	1.570	1.570	U	
4-Feb-08		1.140	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820	1.820	U	
27-Mar-08		1.740	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	U	
29-Apr-08		1.070	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.930	0.930	U	
21-May-08		1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070	U	
13-Jun-08		1.560	1.560	1.560	1.560	1.560	1.560	1.560	1.560	1.560	1.560	1.560	U	
31-Jul-08		2.740	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	U	
30-Sep-08		2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	U	
27-Oct-08		3.660	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	U	
18-Nov-08		3.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	U	
18-Dec-08		2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	U	
21-Jan-09		2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	U	
28-Feb-09		2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	2.800	U	
18-Mar-09		1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	1.100	U
22-Jul-08		1.950	1.950	1.950	1.950	1.950	1.950	1.950	1.950	1.950	1.950	1.950	1.950	U
Volatile Organic Compounds No TO-13 Trichloroethane*		15-Mar-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U
	22-Mar-07	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	24-Apr-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	21-May-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	18-Jun-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	30-Jul-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	23-Aug-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	15-Sep-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	7-Oct-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	31-Oct-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	4-Nov-07	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	8-Jan-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	4-Feb-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	27-Mar-08	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	15-Apr-08	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	13-May-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	27-Jun-08	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	31-Jul-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	28-Aug-08	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	25-Sep-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	27-Oct-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	23-Nov-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	18-Dec-08	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	21-Jan-09	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	U	
	25-Feb-09	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	26-Mar-09	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U	
	22-Jul-08	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	U

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - July 2009

Vehicle Organic Compounds via TD-18 Assemblies	Sampling Date	CT Omal Propanol Indoor Remediated Target Air Concentration/Minimum REEL Approval Action Level	School Storage Bin	Classroom	Orientation	Exterior Walkway	Room 118	Room 112	Member Care (Rm 151)	Room 152	Amphibolite	Chad	
None	15-Mar-07	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	U	
	22-Mar-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	28-Apr-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	21-May-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	18-Jun-07	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	U	
	30-Jul-07	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	U	
	23-Aug-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	20-Sep-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	9-Oct-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	7-Nov-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	8-Dec-07	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	8-Jan-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	22-Feb-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	27-Mar-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	28-Apr-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	31-May-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	31-Jun-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	28-Jul-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	27-Aug-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	25-Sep-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	23-Oct-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	20-Nov-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	18-Dec-08	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	21-Jan-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	23-Feb-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	24-Mar-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	22-Apr-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	22-May-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	22-Jun-09	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	U	
	73	15-Mar-07	14,000	14,000	2,700	2,700	23,000	2,700	2,700	2,700	2,700	2,700	U
		22-Mar-07	3,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
		28-Apr-07	3,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
		21-May-07	3,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
18-Jun-07		1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	U	
30-Jul-07		2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	U	
23-Aug-07		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
20-Sep-07		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
9-Oct-07		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
7-Nov-07		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
6-Dec-07		3,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
4-Jan-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
8-Feb-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
27-Mar-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
28-Apr-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
31-May-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
31-Jun-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
28-Jul-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
27-Aug-08		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
25-Sep-08		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
30-Oct-08		5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	U	
25-Nov-08		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
23-Dec-08		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
21-Jan-09		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
23-Feb-09		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
24-Mar-09		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
24-Apr-09		8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
22-May-09		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
22-Jun-09		2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
73		15-Mar-07	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U
		22-Mar-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
		28-Apr-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
		21-May-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U
	18-Jun-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	30-Jul-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	23-Aug-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	20-Sep-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	9-Oct-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	7-Nov-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	6-Dec-07	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	4-Jan-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	8-Feb-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	27-Mar-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	28-Apr-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	31-May-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	31-Jun-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	28-Jul-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	27-Aug-08	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	25-Sep-08	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	U	
	30-Oct-08	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	5,500	U	
	25-Nov-08	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	23-Dec-08	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	21-Jan-09	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	23-Feb-09	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	24-Mar-09	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	24-Apr-09	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	8,500	U	
	22-May-09	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	
	22-Jun-09	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	U	

Summary of Indoor Ambient Outdoor Air Sampling Data - Adelaiside Avenue School Project - Volatile Organic Compounds
March 2007 - July 2008

Sample Date	CT Draft Proposed Indoor Remediation Target Air Concentrations/When MEKEM Approval Form Used	Each-way Storage (m)	Calderas	Cymposium	Entrance Walkway	Room 118	Room 11E	Module Ctr (Rm 151)	Room 152	Applied Chloride	Chart
15-Mar-07		92,000	31,026	22,000	18,000	12,000	210,000	21,000	20,000	1,500	U
24-Apr-07		28,000	11,700	7,810	6,470	4,410	1,470	1,470	5,800	83,600	U
26-Apr-07		19,000	7,470	5,170	4,410	3,170	1,470	1,470	6,800	1,470	U
28-Apr-07		16,000	6,460	4,410	3,170	2,170	1,470	1,470	5,800	2,140	U
30-May-07		7,500	3,450	1,700	1,470	1,170	7,780	3,300	2,000	34,000	U
30-Jun-07		7,500	4,420	28,000	2,700	9,000	3,000,000	19,000	1,800	1,800	U
20-Aug-07	500	8,100	3,960	9,200	8,100	9,300	1,800	2,800	2,300	1,800	U
25-Sep-07		1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	U
9-Oct-07		1,840	2,710	6,870	2,160	1,470	1,470	1,470	1,470	1,470	U
8-Dec-07		9,040	2,790	2,120	1,790	1,720	1,470	1,470	1,470	1,470	U
8-Jan-08		1,810	1,470	2,260	1,830	2,180	1,470	1,470	1,470	1,470	U
15-Jan-08		1,810	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	U
17-Feb-08		1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	U
17-Mar-08		1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	1,470	U
23-Mar-08		8,560	8,540	6,650	8,140	3,960	4,440	6,840	5,880	4,470	U
23-Apr-08		2,140	1,470	3,170	1,470	1,470	1,470	1,470	1,470	1,470	U
29-May-08		1,470	1,470	2,840	2,240	1,470	1,470	1,470	1,470	1,470	U
27-Jun-08		3,840	2,920	3,810	3,800	3,050	2,420	2,840	2,340	3,840	U
31-Jul-08		3,040	1,790	3,960	1,650	2,960	2,180	1,470	1,470	1,470	U
30-Sep-08		2,160	1,790	3,960	2,160	2,160	1,470	1,470	1,470	1,470	U
30-Sep-08		1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
27-Oct-08		2,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
18-Dec-08		2,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
31-Jan-09		1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
31-Jan-09		1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
25-Feb-09		1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
26-Mar-09		2,410	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	U
29-Apr-09		1,470	1,470	1,470	1,460	1,170	1,470	1,470	1,470	1,470	U
22-Jul-09		1,470	1,470	4,760	1,470	2,070	21,000	1,470	1,450	4,300	U
15-Mar-07		7,800	2,700	5,100	4,200	2,700	3,800	8,540	6,400	2,000	U
22-Apr-07		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
24-Apr-07		3,950	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
31-May-07		6,190	4,470	2,650	4,320	2,650	5,480	4,180	4,870	2,650	U
29-Jun-07		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
30-Jul-07		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
21-Aug-07		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
21-Aug-07		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
8-Oct-07		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
7-Nov-07		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
6-Dec-07		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
6-Jan-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
8-Feb-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
27-Mar-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
26-Apr-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
26-Apr-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
27-May-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
31-Jul-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
28-Aug-08		2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	U
30-Sep-08		2,000	2,000	2,000	2,340	2,000	2,000	2,000	2,000	2,000	U
27-Oct-08		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
18-Nov-08		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
21-Dec-08		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
21-Jan-09		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
21-Feb-09		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
24-Mar-09		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
24-Apr-09		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U
22-Jul-09		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	U

Notes:
 All data presented in microgram per cubic meter (ug/m³)
 U: displacement indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column.
 N/A: Not Available
 CT Draft Proposed Indoor Remediation Target Air Concentrations/When MEKEM Approval Form Used
 ** = Risk Remedial Investigation (RI) for this compound
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ANALYTICAL REPORT

Lab Number: L0910027

Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886

ATTN: Mark Speer

Project Name: ALVEREZ HS

Project Number: 14613.01

Report Date: 07/30/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

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



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910027-01	GYMNASIUM	PROVIDENCE, RI	07/22/09 09:17
L0910027-02	CAFETERIA	PROVIDENCE, RI	07/22/09 09:18
L0910027-03	KITCHEN STORAGE	PROVIDENCE, RI	07/22/09 09:19
L0910027-04	ELEVATOR HALLWAY	PROVIDENCE, RI	07/22/09 09:20
L0910027-05	RM 145	PROVIDENCE, RI	07/22/09 09:38
L0910027-06	RM 152	PROVIDENCE, RI	07/22/09 09:39
L0910027-07	RM 118	PROVIDENCE, RI	07/22/09 09:47
L0910027-08	RM 110	PROVIDENCE, RI	07/22/09 09:50
L0910027-09	AMBIENT OUTDOOR	PROVIDENCE, RI	07/23/09 07:27

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (Low Level)

L0910027-03 The presence of Acetone could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

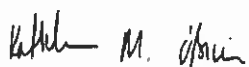
L0910027-05 and -09: results for Acetone should be considered estimated due to co-elution with a non-target peak.

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Case Narrative (continued)

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 07/30/09

AIR

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-01
Client ID: GYMNASIUM
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 07/29/09 00:19
Analyst: AR

Date Collected: 07/22/09 09:17
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	7.89	1.00	18.7	2.37		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 00:19
 Analyst: AR

Date Collected: 07/22/09 09:17
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.232	0.020	1.14	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.087	0.020	0.427	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.092	0.020	0.553	0.120		1
Benzene	0.201	0.070	0.642	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.034	0.020	0.166	0.098		1
Chloromethane	0.546	0.500	2.66	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:17
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.592	0.050	2.92	0.247		1
Ethylbenzene	0.216	0.020	0.937	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	0.062	0.020	0.223	0.072		1
p/m-Xylene	0.617	0.040	2.68	0.174		1
o-Xylene	0.159	0.020	0.690	0.087		1
Styrene	0.036	0.020	0.153	0.085		1
Tetrachloroethene	0.033	0.020	0.224	0.136		1
Toluene	0.676	0.020	2.54	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.035	0.020	0.188	0.107		1
Trichlorofluoromethane	0.288	0.050	1.62	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	0.709	0.500	3.89	2.74		1
2-Butanone	1.61	0.500	4.75	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-02
Client ID: CAFETERIA
Sample Location: PROVIDENCE, RI
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 07/29/09 01:36
Analyst: AR

Date Collected: 07/22/09 09:18
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	5.52	1.00	13.1	2.37		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 01:36
 Analyst: AR

Date Collected: 07/22/09 09:18
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.044	0.020	0.216	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	0.171	0.070	0.546	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.094	0.020	0.591	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.031	0.020	0.151	0.098		1
Chloromethane	0.517	0.500	2.52	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:18
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.632	0.050	3.12	0.247		1
Ethylbenzene	0.049	0.020	0.212	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.133	0.040	0.577	0.174		1
o-Xylene	0.045	0.020	0.195	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.028	0.020	0.190	0.136		1
Toluene	0.269	0.020	1.01	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.020	0.020	0.107	0.107		1
Trichlorofluoromethane	0.343	0.050	1.92	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-03
Client ID: KITCHEN STORAGE
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 07/29/09 02:15
Analyst: AR

Date Collected: 07/22/09 09:19
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	ND	1.00	ND	2.37		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-03
Client ID: KITCHEN STORAGE
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 07/29/09 02:15
Analyst: AR

Date Collected: 07/22/09 09:19
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.206	0.020	1.01	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.077	0.020	0.378	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.033	0.020	0.198	0.120		1
Benzene	0.196	0.070	0.626	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.095	0.020	0.597	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.047	0.020	0.229	0.098		1
Chloromethane	0.548	0.500	2.67	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:19
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.636	0.050	3.14	0.247		1
Ethylbenzene	0.102	0.020	0.442	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.212	0.040	0.920	0.174		1
o-Xylene	0.080	0.020	0.347	0.087		1
Styrene	0.301	0.020	1.28	0.085		1
Tetrachloroethene	0.043	0.020	0.291	0.136		1
Toluene	0.412	0.020	1.55	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.033	0.020	0.177	0.107		1
Trichlorofluoromethane	0.348	0.050	1.95	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-04
Client ID: ELEVATOR HALLWAY
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 07/29/09 02:54
Analyst: AR

Date Collected: 07/22/09 09:20
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	4.95	1.00	11.7	2.37		1

Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 02:54
 Analyst: AR

Date Collected: 07/22/09 09:20
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.069	0.020	0.339	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.028	0.020	0.138	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	0.180	0.070	0.574	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.095	0.020	0.597	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.029	0.020	0.141	0.098		1
Chloromethane	0.520	0.500	2.54	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-04
Client ID: ELEVATOR HALLWAY
Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:20
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.625	0.050	3.09	0.247		1
Ethylbenzene	0.067	0.020	0.291	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.190	0.040	0.824	0.174		1
o-Xylene	0.057	0.020	0.247	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.029	0.020	0.196	0.136		1
Toluene	0.300	0.020	1.13	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.023	0.020	0.123	0.107		1
Trichlorofluoromethane	0.338	0.050	1.90	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-05
 Client ID: RM 145
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/29/09 03:32
 Analyst: AR

Date Collected: 07/22/09 09:38
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	7.22	1.00	17.1	2.37		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-05
 Client ID: RM 145
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 03:32
 Analyst: AR

Date Collected: 07/22/09 09:38
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.181	0.020	0.889	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.060	0.020	0.295	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.024	0.020	0.144	0.120		1
Benzene	0.456	0.070	1.46	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.092	0.020	0.578	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.030	0.020	0.146	0.098		1
Chloromethane	0.695	0.500	3.39	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-05
 Client ID: RM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:38
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.544	0.050	2.69	0.247		1
Ethylbenzene	0.186	0.020	0.807	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.579	0.040	2.51	0.174		1
o-Xylene	0.210	0.020	0.911	0.087		1
Styrene	0.050	0.020	0.213	0.085		1
Tetrachloroethene	0.027	0.020	0.183	0.136		1
Toluene	1.03	0.020	3.88	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.026	0.020	0.140	0.107		1
Trichlorofluoromethane	0.275	0.050	1.54	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	0.591	0.500	1.74	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-06
 Client ID: RM 152
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/29/09 04:11
 Analyst: AR

Date Collected: 07/22/09 09:39
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	8.18	1.00	19.4	2.37		1

Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-06
 Client ID: RM 152
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 04:11
 Analyst: AR

Date Collected: 07/22/09 09:39
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.137	0.020	0.673	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.049	0.020	0.241	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.045	0.020	0.270	0.120		1
Benzene	0.337	0.070	1.08	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.035	0.020	0.171	0.098		1
Chloromethane	0.680	0.500	3.32	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-06
 Client ID: RM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:39
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.599	0.050	2.96	0.247		1
Ethylbenzene	0.125	0.020	0.542	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.397	0.040	1.72	0.174		1
o-Xylene	0.136	0.020	0.590	0.087		1
Styrene	0.051	0.020	0.217	0.085		1
Tetrachloroethene	0.031	0.020	0.210	0.136		1
Toluene	2.04	0.020	7.67	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.033	0.020	0.177	0.107		1
Trichlorofluoromethane	0.338	0.050	1.90	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	0.503	0.500	1.48	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-07
 Client ID: RM 118
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/29/09 04:49
 Analyst: AR

Date Collected: 07/22/09 09:47
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	12.2	1.00	28.9	2.37		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-07
 Client ID: RM 118
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 04:49
 Analyst: AR

Date Collected: 07/22/09 09:47
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.121	0.020	0.594	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.050	0.020	0.246	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.029	0.020	0.174	0.120		1
Benzene	0.267	0.070	0.852	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.042	0.020	0.205	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-07
 Client ID: RM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:47
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.562	0.050	2.78	0.247		1
Ethylbenzene	0.127	0.020	0.551	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.359	0.040	1.56	0.174		1
o-Xylene	0.128	0.020	0.555	0.087		1
Styrene	0.067	0.020	0.285	0.085		1
Tetrachloroethene	0.029	0.020	0.196	0.136		1
Toluene	0.837	0.020	3.15	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.036	0.020	0.193	0.107		1
Trichlorofluoromethane	0.290	0.050	1.63	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	0.702	0.500	2.07	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-08
 Client ID: RM 110
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/29/09 05:28
 Analyst: AR

Date Collected: 07/22/09 09:50
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	12.4	1.00	29.4	2.37		1

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-08
Client ID: RM 110
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 07/29/09 05:28
Analyst: AR

Date Collected: 07/22/09 09:50
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.020	0.020	0.109	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	0.028	0.020	0.111	0.079		1
1,2,4-Trimethylbenzene	0.161	0.020	0.791	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.055	0.020	0.270	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.034	0.020	0.204	0.120		1
Benzene	0.489	0.070	1.56	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.093	0.020	0.585	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.037	0.020	0.180	0.098		1
Chloromethane	0.570	0.500	2.78	2.44		1
cis-1,2-Dichloroethene	0.032	0.020	0.127	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-08

Date Collected: 07/22/09 09:50

Client ID: RM 110

Date Received: 07/23/09

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.641	0.050	3.17	0.247		1
Ethylbenzene	0.144	0.020	0.625	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.478	0.040	2.07	0.174		1
o-Xylene	0.171	0.020	0.742	0.087		1
Styrene	0.064	0.020	0.272	0.085		1
Tetrachloroethene	0.029	0.020	0.196	0.136		1
Toluene	0.905	0.020	3.41	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.132	0.020	0.709	0.107		1
Trichlorofluoromethane	0.365	0.050	2.05	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	7.42	0.500	21.9	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1

Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-09
 Client ID: AMBIENT OUTDOOR
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 07/29/09 06:07
 Analyst: AR

Date Collected: 07/23/09 07:27
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab						
Acetone	4.62	1.00	11.0	2.37		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-09
 Client ID: AMBIENT OUTDOOR
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 06:07
 Analyst: AR

Date Collected: 07/23/09 07:27
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.182	0.020	0.894	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.049	0.020	0.241	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.074	0.020	0.444	0.120		1
Benzene	1.36	0.070	4.33	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.094	0.020	0.591	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.090	0.020	0.439	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910027-09
Client ID: AMBIENT OUTDOOR
Sample Location: PROVIDENCE, RI

Date Collected: 07/23/09 07:27
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.634	0.050	3.13	0.247		1
Ethylbenzene	0.271	0.020	1.18	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	0.047	0.020	0.169	0.072		1
p/m-Xylene	0.809	0.040	3.51	0.174		1
o-Xylene	0.286	0.020	1.24	0.087		1
Styrene	0.044	0.020	0.187	0.085		1
Tetrachloroethene	0.079	0.020	0.535	0.136		1
Toluene	1.82	0.020	6.85	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.039	0.020	0.209	0.107		1
Trichlorofluoromethane	0.377	0.050	2.12	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
2-Butanone	1.48	0.500	4.36	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 07/28/09 18:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG372880-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Butadiene	ND	0.020	ND	0.044		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Bromomethane	ND	0.020	ND	0.078		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 07/28/09 18:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG372880-4						
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	ND	0.383		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ND	0.349		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
Naphthalene	ND	0.050	ND	0.262		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
1,2,4-Trichlorobenzene	ND	0.050	ND	0.371		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Hexachlorobutadiene	ND	0.050	ND	0.192		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 07/28/09 18:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-09 Batch: WG372880-4						
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Halothane	ND	0.050	ND	0.403		1
1,2,3-Trichlorobenzene	ND	0.050	ND	0.371		1



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15

Analytical Date: 07/28/09 18:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01-09 Batch: WG373006-4						
Acetone	ND	1.00	ND	2.37		1



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	LCS %Recovery	LCS %Recovery	LCS %Recovery	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG372880-3					
1,1,1-Trichloroethane	102	-	70-130	-	-
1,1,1,2-Tetrachloroethane	92	-	70-130	-	-
1,1,2,2-Tetrachloroethane	93	-	70-130	-	-
1,1,2-Trichloroethane	98	-	70-130	-	-
1,1-Dichloroethane	96	-	70-130	-	-
1,1-Dichloroethene	101	-	70-130	-	-
1,2,4-Trimethylbenzene	90	-	70-130	-	-
1,2-Dibromoethane	89	-	70-130	-	-
1,2-Dichlorobenzene	92	-	70-130	-	-
1,2-Dichloroethane	105	-	70-130	-	-
1,2-Dichloropropane	94	-	70-130	-	-
1,3,5-Trimethylbenzene	89	-	70-130	-	-
1,3-Butadiene	103	-	70-130	-	-
1,3-Dichlorobenzene	93	-	70-130	-	-
1,4-Dichlorobenzene	92	-	70-130	-	-
Benzene	75	-	70-130	-	-
Bromodichloromethane	99	-	70-130	-	-
Bromoform	97	-	70-130	-	-
Bromomethane	88	-	70-130	-	-
Carbon tetrachloride	105	-	70-130	-	-
Chlorobenzene	93	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG372880-3					
Chloroethane	95	-	70-130	-	-
Chloroform	101	-	70-130	-	-
Chloromethane	98	-	70-130	-	-
cis-1,2-Dichloroethene	93	-	70-130	-	-
cis-1,3-Dichloropropene	85	-	70-130	-	-
Dibromochloromethane	93	-	70-130	-	-
Dichlorodifluoromethane	128	-	70-130	-	-
Ethylbenzene	89	-	70-130	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	99	-	70-130	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	108	-	70-130	-	-
Methylene chloride	96	-	70-130	-	-
Methyl tert butyl ether	95	-	70-130	-	-
Naphthalene	82	-	70-130	-	-
p/m-Xylene	92	-	70-130	-	-
o-Xylene	93	-	70-130	-	-
Styrene	85	-	70-130	-	-
Tetrachloroethene	90	-	70-130	-	-
Toluene	78	-	70-130	-	-
trans-1,2-Dichloroethene	92	-	70-130	-	-
trans-1,3-Dichloropropene	74	-	70-130	-	-
Trichloroethene	96	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 Batch: WG372880-3					
1,2,4-Trichlorobenzene	82	-	70-130	-	-
Trichlorofluoromethane	113	-	70-130	-	-
Hexachlorobutadiene	85	-	70-130	-	-
Vinyl chloride	103	-	70-130	-	-
Acrylonitrile	89	-	70-130	-	-
n-Butylbenzene	84	-	70-130	-	-
sec-Butylbenzene	93	-	70-130	-	-
Isopropylbenzene	94	-	70-130	-	-
p-Isopropyltoluene	85	-	70-130	-	-
Acetone	88	-	70-130	-	-
2-Butanone	91	-	70-130	-	-
4-Methyl-2-pentanone	98	-	70-130	-	-
Halothane	119	-	70-130	-	-
1,2,3-Trichlorobenzene	85	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-09 Batch: WG373006-3					
Acelone	101	-	70-130	-	



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG372880-5 QC Sample: L0910027-01 Client ID: GYMNASIUM					
1,1,1-Trichloroethane	ND	ND	ppbv	NC	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2-Trichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethene	ND	ND	ppbv	NC	25
1,2,4-Trimethylbenzene	0.232	0.230	ppbv	1	25
1,2-Dibromoethane	ND	ND	ppbv	NC	25
1,2-Dichlorobenzene	ND	ND	ppbv	NC	25
1,2-Dichloroethane	ND	ND	ppbv	NC	25
1,2-Dichloropropane	ND	ND	ppbv	NC	25
1,3,5-Trimethylbenzene	0.087	0.086	ppbv	1	25
1,3-Dichlorobenzene	ND	ND	ppbv	NC	25
1,4-Dichlorobenzene	0.092	0.095	ppbv	3	25
Benzene	0.201	0.215	ppbv	7	25
Bromodichloromethane	ND	ND	ppbv	NC	25
Bromoform	ND	ND	ppbv	NC	25
Carbon tetrachloride	0.093	0.094	ppbv	1	25
Chlorobenzene	ND	ND	ppbv	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG372880-5 QC Sample: L0910027-01 Client ID: GYMNASIUM					
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	0.034	0.033	ppbV	3	25
Chloromethane	0.546	0.535	ppbV	2	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.592	0.583	ppbV	2	25
Ethylbenzene	0.216	0.215	ppbV	0	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	0.062	0.058	ppbV	7	25
p/m-Xylene	0.617	0.619	ppbV	0	25
o-Xylene	0.159	0.157	ppbV	1	25
Styrene	0.036	0.035	ppbV	3	25
Tetrachloroethene	0.033	0.034	ppbV	3	25
Toluene	0.676	0.675	ppbV	0	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	0.035	0.033	ppbV	6	25
Trichlorofluoromethane	0.288	0.276	ppbV	4	25



Lab Duplicate Analysis
Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG372880-5 QC Sample: L0910027-01 Client ID: GYMNASIUM					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	0.709	0.706	ppbV	0	25
2-Butanone	1.61	1.52	ppbV	6	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25

Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG373006-5 QC Sample: L0910027-01 Client ID: GYMNASIUM

Acetone	7.89	7.86	ppbV	0	25
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Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0910027-01	GYMNASIUM	0406	#30 SV		-	-	77	82	6
L0910027-01	GYMNASIUM	130	2.7L Can	10909181	-29.6	0.1	-	-	-
L0910027-02	CAFETERIA	0024	#90 SV		-	-	80	83	4
L0910027-02	CAFETERIA	360	2.7L Can	10909711	-29.7	0.5	-	-	-
L0910027-03	KITCHEN STORAGE	0265	#30 SV		-	-	77	78	1
L0910027-03	KITCHEN STORAGE	346	2.7L Can	10909711	-29.7	-0.9	-	-	-
L0910027-04	ELEVATOR HALLWAY	0090	#20 AMB		-	-	76	82	8
L0910027-04	ELEVATOR HALLWAY	147B	2.7L Can	10909711	-29.7	0.3	-	-	-
L0910027-05	RM 145	0377	#30 AMB		-	-	78	76	0
L0910027-05	RM 145	389	2.7L Can	10909181	-29.7	-4.4	-	-	-
L0910027-06	RM 152	0368	#90 SV		-	-	75	78	4
L0910027-06	RM 152	541	2.7L Can	10909711	-29.7	-3.7	-	-	-
L0910027-07	RM 118	0272	#90 SV		-	-	78	70	8
L0910027-07	RM 118	260	2.7L Can	10909124	-29.5	-2.8	-	-	-
L0910027-08	RM 110	0366	#30 SV		-	-	78	77	1
L0910027-08	RM 110	470	2.7L Can	10909711	-29.7	-7.5	-	-	-
L0910027-09	AMBIENT OUTDOOR	0349	#90 SV		-	-	76	77	1



Project Name: ALVEREZ HS

Project Number: 14613.01

Report Date: 07/30/09

Canister and Flow Controller Information

Sample Num	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0910027-09	AMBIENT OUTDOOR	535	2.7L Can	10909711	-29.7	-2.8	-	-	-



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910027-01A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-02A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-03A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-04A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-05A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-06A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-07A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-08A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)
L0910027-09A	Canister - 2.7 Liter	N/A	N/A		NA	Present/Intact	TO15-LL(30),TO15-SIM(30)

*Hold days indicated by values in parentheses



Project Name: ALVEREZ HS

Lab Number: L0910027

Project Number: 14613.01

Report Date: 07/30/09

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND - Not detected at the reported detection limit for the sample.
- NI - Not Ignitable.
- RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

- * - The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
- A - Spectra identified as "Aldol Condensation Product".
- B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
- D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- N - The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
- P - The RPD between the results for the two columns exceeds the method-specified criteria.
- R - Analytical results are from sample re-analysis.
- RE - Analytical results are from sample re-extraction.
- J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910027
Report Date: 07/30/09

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers



AIR ANALYSIS

PAGE ____ OF ____

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

Client Information

Client: EA Engineering
 Address: 2350 PostVt Rd
Mansfield, RI 02886
 Phone: 401-736-3440
 Fax: 401-736-3423
 Email: _____

Project Information

Project Name: Alvarez H.S.
 Project Location: Providence, RI
 Project #: H613.01
 Project Manager: Mark K. Speer
 ALPHA Quote #: _____
 Turn-Around Time: _____
 Standard RUSH (only confirmed if pre-approved)
 Date Due: _____ Time: _____

Date Rec'd in Lab:

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
 Report to: (if different than Project Manager)
cmack@aes.com
mspeer@aes.com

ALPHA Job #: 10910027

Billing Information

Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria
CT TARGET TYPICAL
AIR CONCENTRATIONS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS	Sample Comments (i.e. PID)
		Date	Start Time							
10910027-1	Gymnasium	7/22/09	8:47	9:17	-30t	-2	AA	7/23/09 11:30	TO-14A by TO-15 TO-15 TO-15 SIM APH FIXED GASES TO-13A TO-4/ TO-10	PPM = 0.00 ppm
2	Cafeteria		8:48	9:18	-30t	-2				0.0
3	Kitchen Storage		8:49	9:19	-30t	-4				0.0
4	Elevator Hallway		8:50	9:20	-30t	-1				0.0
5	RM 145		9:09	9:38	-30t	-7				0.0
6	RM 152		9:10	9:39	-29	-3				0.0
7	RM 118		9:18	9:47	-30t	-4				0.0
8	RM 110		9:20	9:50	-28	-7				0.0
9	Ambient Outdoor	7/23/09	7:00	7:27	-30t	-5	DA	7/23/09 12:45		0.0

***SAMPLE MATRIX CODES**

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

Container Type

Retrieved By:

Date/Time: _____

Received By:

Date/Time: _____

[Signature]

7/23/09 11:30

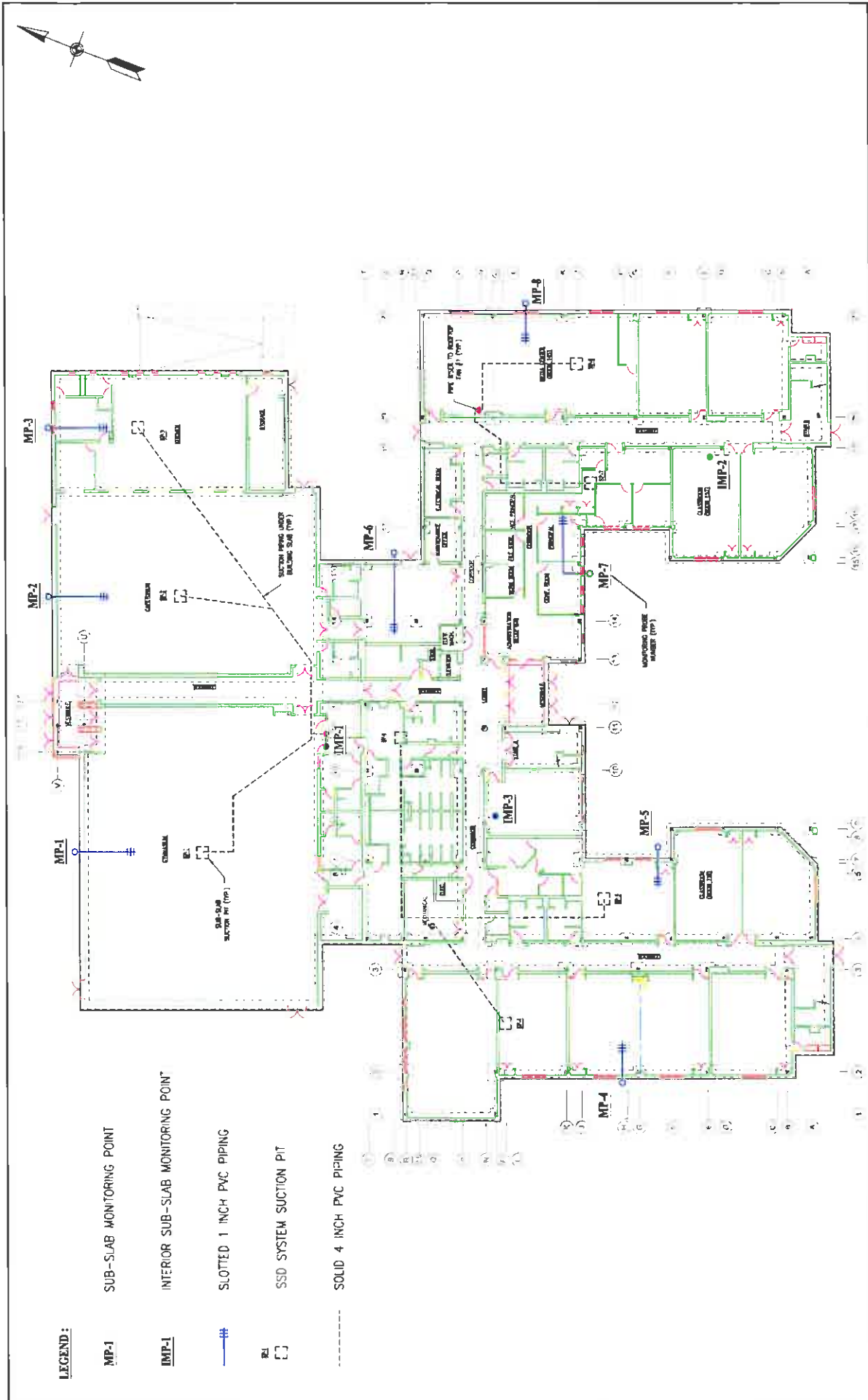
[Signature]

7/23/09 12:45

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

Appendix D

Sub-Slab Air Analytical Summary and Lab Report



LEGEND:

- MP-1** SUB-SLAB MONITORING POINT
- IMP-1** INTERIOR SUB-SLAB MONITORING POINT*
- SLOTTED 1 INCH PVC PIPING
- SSD SYSTEM SUCTION PIT
- SOLID 4 INCH PVC PIPING



DESIGNED BY	PMG	DATE	AUG 27 2007	PROJECT NO	61985.01	FILE NAME	AS-BUILT08-07
DRAWN BY	PMG	SCALE	NTS	DRAWING NO	2 OF 3	FIGURE	N/A

AS-BUILT
SUB SLAB MONITORING AND SAMPLING LOCATIONS
ADELAIDE AVE HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

REMEDIAL CLOSURE REPORT
AS-BUILT SUB-SLAB
MONITORING AND SAMPLING PLAN

Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - July 2009

1-Checklist/Item	1-1-Checklist/Item	1-2-Checklist/Item	1-3-Checklist/Item	1-4-Checklist/Item	1-5-Checklist/Item	1-6-Checklist/Item	1-7-Checklist/Item	1-8-Checklist/Item	1-9-Checklist/Item	1-10-Checklist/Item	1-11-Checklist/Item	1-12-Checklist/Item	1-13-Checklist/Item	1-14-Checklist/Item	1-15-Checklist/Item	1-16-Checklist/Item	1-17-Checklist/Item	1-18-Checklist/Item	1-19-Checklist/Item	1-20-Checklist/Item	1-21-Checklist/Item	1-22-Checklist/Item	1-23-Checklist/Item	1-24-Checklist/Item	1-25-Checklist/Item	1-26-Checklist/Item	1-27-Checklist/Item	1-28-Checklist/Item	1-29-Checklist/Item	1-30-Checklist/Item	1-31-Checklist/Item	1-32-Checklist/Item	1-33-Checklist/Item	1-34-Checklist/Item	1-35-Checklist/Item	1-36-Checklist/Item	1-37-Checklist/Item	1-38-Checklist/Item	1-39-Checklist/Item	1-40-Checklist/Item	1-41-Checklist/Item	1-42-Checklist/Item	1-43-Checklist/Item	1-44-Checklist/Item	1-45-Checklist/Item	1-46-Checklist/Item	1-47-Checklist/Item	1-48-Checklist/Item	1-49-Checklist/Item	1-50-Checklist/Item	1-51-Checklist/Item	1-52-Checklist/Item	1-53-Checklist/Item	1-54-Checklist/Item	1-55-Checklist/Item	1-56-Checklist/Item	1-57-Checklist/Item	1-58-Checklist/Item	1-59-Checklist/Item	1-60-Checklist/Item	1-61-Checklist/Item	1-62-Checklist/Item	1-63-Checklist/Item	1-64-Checklist/Item	1-65-Checklist/Item	1-66-Checklist/Item	1-67-Checklist/Item	1-68-Checklist/Item	1-69-Checklist/Item	1-70-Checklist/Item	1-71-Checklist/Item	1-72-Checklist/Item	1-73-Checklist/Item	1-74-Checklist/Item	1-75-Checklist/Item	1-76-Checklist/Item	1-77-Checklist/Item	1-78-Checklist/Item	1-79-Checklist/Item	1-80-Checklist/Item	1-81-Checklist/Item	1-82-Checklist/Item	1-83-Checklist/Item	1-84-Checklist/Item	1-85-Checklist/Item	1-86-Checklist/Item	1-87-Checklist/Item	1-88-Checklist/Item	1-89-Checklist/Item	1-90-Checklist/Item	1-91-Checklist/Item	1-92-Checklist/Item	1-93-Checklist/Item	1-94-Checklist/Item	1-95-Checklist/Item	1-96-Checklist/Item	1-97-Checklist/Item	1-98-Checklist/Item	1-99-Checklist/Item	1-100-Checklist/Item
1.2-Checklist/Item	1.1-Checklist/Item	1.3-Checklist/Item	1.4-Checklist/Item	1.5-Checklist/Item	1.6-Checklist/Item	1.7-Checklist/Item	1.8-Checklist/Item	1.9-Checklist/Item	1.10-Checklist/Item	1.11-Checklist/Item	1.12-Checklist/Item	1.13-Checklist/Item	1.14-Checklist/Item	1.15-Checklist/Item	1.16-Checklist/Item	1.17-Checklist/Item	1.18-Checklist/Item	1.19-Checklist/Item	1.20-Checklist/Item	1.21-Checklist/Item	1.22-Checklist/Item	1.23-Checklist/Item	1.24-Checklist/Item	1.25-Checklist/Item	1.26-Checklist/Item	1.27-Checklist/Item	1.28-Checklist/Item	1.29-Checklist/Item	1.30-Checklist/Item	1.31-Checklist/Item	1.32-Checklist/Item	1.33-Checklist/Item	1.34-Checklist/Item	1.35-Checklist/Item	1.36-Checklist/Item	1.37-Checklist/Item	1.38-Checklist/Item	1.39-Checklist/Item	1.40-Checklist/Item	1.41-Checklist/Item	1.42-Checklist/Item	1.43-Checklist/Item	1.44-Checklist/Item	1.45-Checklist/Item	1.46-Checklist/Item	1.47-Checklist/Item	1.48-Checklist/Item	1.49-Checklist/Item	1.50-Checklist/Item	1.51-Checklist/Item	1.52-Checklist/Item	1.53-Checklist/Item	1.54-Checklist/Item	1.55-Checklist/Item	1.56-Checklist/Item	1.57-Checklist/Item	1.58-Checklist/Item	1.59-Checklist/Item	1.60-Checklist/Item	1.61-Checklist/Item	1.62-Checklist/Item	1.63-Checklist/Item	1.64-Checklist/Item	1.65-Checklist/Item	1.66-Checklist/Item	1.67-Checklist/Item	1.68-Checklist/Item	1.69-Checklist/Item	1.70-Checklist/Item	1.71-Checklist/Item	1.72-Checklist/Item	1.73-Checklist/Item	1.74-Checklist/Item	1.75-Checklist/Item	1.76-Checklist/Item	1.77-Checklist/Item	1.78-Checklist/Item	1.79-Checklist/Item	1.80-Checklist/Item	1.81-Checklist/Item	1.82-Checklist/Item	1.83-Checklist/Item	1.84-Checklist/Item	1.85-Checklist/Item	1.86-Checklist/Item	1.87-Checklist/Item	1.88-Checklist/Item	1.89-Checklist/Item	1.90-Checklist/Item	1.91-Checklist/Item	1.92-Checklist/Item	1.93-Checklist/Item	1.94-Checklist/Item	1.95-Checklist/Item	1.96-Checklist/Item	1.97-Checklist/Item	1.98-Checklist/Item	1.99-Checklist/Item	1.100-Checklist/Item	

Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
 March 2007 - July 2009

Compound	Sample Date	MPF-1		MPF-2		MPF-3		MPF-4		MPF-5		MPF-7		MPF-8		MPF-9		MPF-10		MPF-11		MPF-12		MPF-13					
		Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit	Conc	Unit		
Case 1.2 Dichloromethane	15-Mar-07	4100.000	U	4400.000	U	4500.000	U	4600.000	U	4400.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U		
	22-Mar-07	25.800	U	15.800	U	25.800	U	25.800	U	25.800	U	18.000	U	18.000	U	18.000	U	18.000	U	18.000	U	18.000	U	18.000	U	18.000	U		
	29-Mar-07	18.800	U	10.300	U	18.800	U	18.800	U	18.800	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U
	31-Mar-07	18.800	U	10.300	U	18.800	U	18.800	U	18.800	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U	10.300	U
	30-Apr-07	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U	8.200	U
	22-May-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	29-May-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	5-Jun-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	8-Jun-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	15-Jun-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	22-Jun-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	29-Jun-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	6-Jul-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
Case 1.3 Dichloroethane	15-Mar-07	4100.000	U	4400.000	U	4500.000	U	4600.000	U	4400.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U	1800.000	U		
	22-Mar-07	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U	58.700	U		
	29-Mar-07	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U	41.300	U		
	26-Jun-07	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U	0.400	U		
	23-Aug-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	29-Sep-07	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U	18.800	U
	6-Oct-07	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U	2.210	U		
	7-Nov-07	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U		
	8-Jan-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	8-Feb-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	25-Mar-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	31-Jul-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	28-Aug-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
25-Sep-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	
22-Oct-08	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	

Summary of Sub-Slab Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - July 2008

Sample Date	MRP-1	MRP-2	MRP-3	MRP-4	MRP-5	MRP-6	MRP-7	MRP-8	MRP-9	MRP-10	MRP-11	MRP-12	MRP-13
15-Mar-07	170,000	730,000	150,000	740,000	720,000	190,000	110,000	370,000	N3	N3	N3	N3	N3
23-Mar-07	106,000	108,000	106,000	106,000	106,000	106,000	106,000	42,800	N3	N3	N3	N3	N3
28-Apr-07	42,800	42,800	42,800	42,800	42,800	42,800	42,800	42,800	N3	N3	N3	N3	N3
28-May-07	1,500	6,850	1,500	1,700	1,500	1,700	1,500	1,500	N3	N3	N3	N3	N3
30-Jun-07	0,850	1,100	0,850	0,850	0,850	0,850	0,850	0,850	N3	N3	N3	N3	N3
27-Aug-07	N3	N3	0,800	N3	2,400	N3	N3	N3	N3	N3	N3	N3	N3
20-Sep-07	2,400	N3	N3	N3	0,440	N3	N3	N3	N3	N3	N3	N3	N3
9-Oct-07	N3	0,100	N3	N3	N3	0,100	0,100	N3	N3	N3	N3	N3	N3
8-Nov-07	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
8-Dec-07	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
27-Jan-08	N3	0,200	N3	N3	0,090	N3	N3	N3	N3	N3	N3	N3	N3
25-Feb-08	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
25-Mar-08	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
27-Apr-08	4,200	N3	N3	4,200	N3	4,200	N3	4,200	N3	N3	N3	N3	N3
23-May-08	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
18-Jun-08	N3	N3	4,200	N3	N3	4,200	N3	4,200	N3	N3	N3	N3	N3
21-Jul-08	N3	N3	N3	4,200	N3	N3	N3	4,200	N3	N3	N3	N3	N3
25-Aug-08	4,200	N3	N3	4,200	N3	4,200	N3	4,200	N3	N3	N3	N3	N3
22-Sep-08	0,800	N3	N3	0,800	N3	0,800	N3	0,800	N3	N3	N3	N3	N3
29-Oct-08	N3	N3	0,200	N3	N3	0,200	N3	0,200	N3	N3	N3	N3	N3
22-Nov-08	0,400	N3	19,800	0,800	N3	0,400	N3	0,400	N3	N3	N3	N3	N3
15-Mar-07	450,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	N3	N3	N3	N3	N3
16-Mar-07	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	N3	N3	N3	N3	N3
24-Mar-07	49,400	49,400	49,400	49,400	49,400	49,400	49,400	49,400	N3	N3	N3	N3	N3
21-Jun-07	89,800	49,400	49,400	49,400	49,400	49,400	49,400	49,400	N3	N3	N3	N3	N3
29-Jun-07	2,400	2,200	3,100	2,800	3,100	2,800	3,100	2,800	N3	N3	N3	N3	N3
23-Aug-07	N3	N3	3,870	N3	6,180	N3	N3	6,180	N3	N3	N3	N3	N3
20-Sep-07	N3	9,180	N3	N3	12,540	N3	N3	12,540	N3	N3	N3	N3	N3
7-Oct-07	2,800	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
8-Oct-07	N3	N3	3,140	N3	N3	2,320	N3	2,320	N3	N3	N3	N3	N3
8-Nov-08	N3	N3	2,870	N3	N3	N3	2,400	N3	N3	N3	N3	N3	N3
8-Dec-08	3,000	N3	N3	N3	2,930	N3	N3	2,930	N3	N3	N3	N3	N3
8-Feb-09	N3	2,290	N3	N3	N3	2,150	N3	2,150	N3	N3	N3	N3	N3
27-Mar-09	N3	N3	2,010	N3	N3	2,110	N3	2,110	N3	N3	N3	N3	N3
28-Mar-09	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
28-Apr-09	2,030	N3	N3	N3	2,570	N3	N3	2,570	N3	N3	N3	N3	N3
28-May-09	N3	1,800	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
31-Jun-09	N3	N3	3,140	N3	N3	2,400	N3	2,400	N3	N3	N3	N3	N3
8-Jul-09	N3	N3	3,130	N3	N3	2,800	N3	2,800	N3	N3	N3	N3	N3
30-Sep-09	N3	N3	N3	N3	2,560	N3	N3	2,560	N3	N3	N3	N3	N3
27-Oct-09	3,500	N3	N3	N3	2,500	N3	N3	2,500	N3	N3	N3	N3	N3
29-Nov-09	N3	215,000	N3	N3	11,100	N3	N3	11,100	N3	N3	N3	N3	N3
15-Dec-09	N3	N3	N3	N3	2,520	N3	N3	2,520	N3	N3	N3	N3	N3
21-Jan-10	3,500	N3	N3	N3	19,400	N3	N3	19,400	N3	N3	N3	N3	N3
28-Feb-10	N3	N3	N3	N3	N3	2,400	N3	2,400	N3	N3	N3	N3	N3
19-Mar-10	N3	N3	2,410	N3	N3	3,790	N3	3,790	N3	N3	N3	N3	N3
22-Jun-08	3,420	N3	2,420	2,420	N3	2,500	N3	2,500	N3	N3	N3	N3	N3
18-Jun-07	360,000	370,000	370,000	360,000	370,000	160,000	37,000	160,000	N3	N3	N3	N3	N3
22-Jun-07	54,200	54,200	54,200	54,200	54,200	54,200	54,200	54,200	N3	N3	N3	N3	N3
28-Jun-07	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700	N3	N3	N3	N3	N3
28-Jul-07	38,800	21,700	21,700	21,700	21,700	21,700	21,700	21,700	N3	N3	N3	N3	N3
29-Aug-07	15,000	0,430	0,430	0,430	0,430	0,430	0,430	0,430	N3	N3	N3	N3	N3
30-Sep-07	9,870	N3	0,370	0,370	N3	1,800	N3	1,800	N3	N3	N3	N3	N3
20-Oct-07	N3	N3	N3	N3	N3	2,170	N3	2,170	N3	N3	N3	N3	N3
25-Nov-07	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
9-Dec-07	2,110	N3	N3	N3	0,424	N3	N3	0,424	N3	N3	N3	N3	N3
7-Jan-08	N3	0,160	N3	N3	N3	0,220	N3	0,220	N3	N3	N3	N3	N3
6-Feb-08	N3	N3	0,120	N3	N3	N3	0,160	N3	N3	N3	N3	N3	N3
8-Mar-08	N3	N3	N3	1,010	N3	N3	N3	N3	N3	N3	N3	N3	N3
8-Apr-08	0,210	N3	N3	N3	0,230	N3	N3	0,230	N3	N3	N3	N3	N3
22-May-08	N3	0,095	N3	N3	N3	0,17	N3	0,17	N3	N3	N3	N3	N3
22-Jun-08	N3	N3	0,281	N3	N3	N3	0,320	N3	N3	N3	N3	N3	N3
29-Jul-08	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
27-Aug-08	4,440	N3	N3	1,490	N3	N3	N3	N3	N3	N3	N3	N3	N3
31-Sep-08	N3	0,820	N3	N3	0,17	N3	N3	0,17	N3	N3	N3	N3	N3
31-Oct-08	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
31-Nov-08	N3	N3	0,830	N3	N3	N3	0,487	N3	N3	N3	N3	N3	N3
30-Dec-08	N3	N3	N3	2,200	N3	N3	N3	2,200	N3	N3	N3	N3	N3
30-Jan-09	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
21-Feb-09	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
18-Mar-09	N3	2,200	N3	2,200	N3	2,200	N3	2,200	N3	N3	N3	N3	N3
18-Apr-09	N3	N3	2,200	N3	N3	2,200	N3	2,200	N3	N3	N3	N3	N3
21-May-09	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3	N3
25-Jun-09	19,800	N3	N3	N3	2,200	N3	N3	2,200	N3	N3	N3	N3	N3
28-Jul-09	N3	0,518	N3	N3	N3	0,848	N3	0,848	N3	N3	N3	N3	N3
28-Aug-09	N3	N3	0,190	N3	N3	N3	0,190	N3	N3	N3	N3	N3	N3
22-Sep-09	1,700	N3	11,700	0,884	N3	1,190	N3	1,190	N3	N3	N3	N3	N3

Summary of Sub-Slab Air Sampling Date - Adelaide Avenue School Project - Volatile Organic Compounds
March 2007 - July 2009

Sample Date	Sample Class	MPF 1	MPF 2	MPF 3	MPF 4	MPF 5	MPF 6	MPF 7	MPF 8	MPF 1	MPF 2	MPF 3
18-Mar-07	Volatile Organic Compounds via TD-11	12000.0000	17000.0000	12000.0000	17000.0000	14000.0000	48000.0000	18000.0000	5200.0000	N3	N3	N3
22-Apr-07	Method: Toxic Air Pollutants	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
18-Apr-07		43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	N3	N3	N3
21-Apr-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
20-May-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
20-Jun-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
22-Aug-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
20-Sep-07		43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	N3	N3	N3
9-Oct-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
8-Nov-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
8-Dec-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
27-Jan-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
25-Feb-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
28-Mar-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
28-Apr-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
28-May-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Jun-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Jul-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Aug-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
20-Sep-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
19-Oct-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Nov-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Dec-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Jan-09		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Feb-09		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
22-Mar-09		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
22-Apr-09		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
18-Mar-07	Identify: Toxic Air Pollutants	12000.0000	17000.0000	12000.0000	17000.0000	14000.0000	48000.0000	18000.0000	5200.0000	N3	N3	N3
18-Apr-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Apr-07		43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	N3	N3	N3
20-May-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
20-Jun-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
22-Aug-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
20-Sep-07		43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	43.4000	N3	N3	N3
9-Oct-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
8-Nov-07		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
8-Dec-07		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
27-Jan-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
25-Feb-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
28-Mar-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
28-Apr-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
28-May-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Jun-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Jul-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Aug-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
20-Sep-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
19-Oct-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Nov-08		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Dec-08		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
21-Jan-09		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
21-Feb-09		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3
22-Mar-09		86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	86.8000	N3	N3	N3
22-Apr-09		173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	173.6000	N3	N3	N3



ANALYTICAL REPORT

Lab Number: L0910102

Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886

ATTN: Mark Speer

Project Name: ALVEREZ HS

Project Number: 14613.01

Report Date: 07/30/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

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

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0910102-01	MP-1	PROVIDENCE, RI	07/22/09 09:28
L0910102-02	MP-3	PROVIDENCE, RI	07/22/09 10:48
L0910102-03	MP-4	PROVIDENCE, RI	07/22/09 10:58
L0910102-04	MP-6	PROVIDENCE, RI	07/23/09 07:30
L0910102-05	IMP-1	PROVIDENCE, RI	07/22/09 11:04
L0910102-06	IMP-2	PROVIDENCE, RI	07/22/09 11:07

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air (SIM)

L0910102-01 and -02 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L0910102-02 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

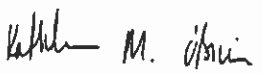
Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Case Narrative (continued)

L0910102-03 and -04 have elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 07/30/09



AIR

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-01 D
Client ID: MP-1
Sample Location: PROVIDENCE, RI
Matrix: Soil_Vapor
Analytical Method: 48,TO-15-SIM
Analytical Date: 07/29/09 23:19
Analyst: RY

Date Collected: 07/22/09 09:28
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.100	ND	0.545		5
1,1,1,2-Tetrachloroethane	ND	0.100	ND	0.686		5
1,1,2,2-Tetrachloroethane	ND	0.100	ND	0.686		5
1,1,2-Trichloroethane	ND	0.100	ND	0.545		5
1,1-Dichloroethane	ND	0.100	ND	0.404		5
1,1-Dichloroethene	ND	0.100	ND	0.396		5
1,2,4-Trimethylbenzene	0.710	0.100	3.49	0.491		5
1,2-Dibromoethane	ND	0.100	ND	0.768		5
1,2-Dichlorobenzene	ND	0.100	ND	0.601		5
1,2-Dichloroethane	ND	0.100	ND	0.404		5
1,2-Dichloropropane	ND	0.100	ND	0.462		5
1,3,5-Trimethylbenzene	0.610	0.100	3.00	0.491		5
1,3-Dichlorobenzene	ND	0.100	ND	0.601		5
1,4-Dichlorobenzene	ND	0.100	ND	0.601		5
Benzene	ND	0.350	ND	1.12		5
Bromodichloromethane	ND	0.100	ND	0.670		5
Bromoform	ND	0.100	ND	1.03		5
Carbon tetrachloride	ND	0.100	ND	0.629		5
Chlorobenzene	ND	0.100	ND	0.460		5
Chloroethane	ND	0.100	ND	0.264		5
Chloroform	ND	0.100	ND	0.488		5
Chloromethane	3.80	2.50	18.5	12.2		5
cis-1,2-Dichloroethene	ND	0.100	ND	0.396		5
cis-1,3-Dichloropropene	ND	0.100	ND	0.453		5
Dibromochloromethane	ND	0.100	ND	0.480		5

Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-01 D
 Client ID: MP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 09:28
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.490	0.250	2.42	1.24		5
Ethylbenzene	2.70	0.100	11.7	0.434		5
Methylene chloride	ND	2.50	ND	8.68		5
Methyl tert butyl ether	ND	0.100	ND	0.360		5
p/m-Xylene	5.90	0.200	25.6	0.868		5
o-Xylene	1.23	0.100	5.34	0.434		5
Styrene	ND	0.100	ND	0.426		5
Tetrachloroethene	0.240	0.100	1.63	0.678		5
Toluene	10.3	0.100	38.7	0.376		5
trans-1,2-Dichloroethene	ND	0.100	ND	0.396		5
trans-1,3-Dichloropropene	ND	0.100	ND	0.453		5
Trichloroethene	ND	0.100	ND	0.537		5
Trichlorofluoromethane	0.260	0.250	1.46	1.40		5
Vinyl chloride	ND	0.100	ND	0.255		5
Acrylonitrile	ND	2.50	ND	5.42		5
n-Butylbenzene	ND	2.50	ND	13.7		5
sec-Butylbenzene	ND	2.50	ND	13.7		5
Isopropylbenzene	ND	2.50	ND	12.3		5
p-Isopropyltoluene	ND	2.50	ND	13.7		5
Acetone	24.7	10.0	58.5	23.7		5
2-Butanone	147	2.50	433	7.37		5
4-Methyl-2-pentanone	ND	2.50	ND	10.2		5



Project Name: ALVEREZ HS

Lab Number: L0910102

Project Number: 14613.01

Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-02 D
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/30/09 01:43
 Analyst: RY

Date Collected: 07/22/09 10:48
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	4.08	ND	22.2		203.9
1,1,1,2-Tetrachloroethane	ND	4.08	ND	28.0		203.9
1,1,2,2-Tetrachloroethane	ND	4.08	ND	28.0		203.9
1,1,2-Trichloroethane	ND	4.08	ND	22.2		203.9
1,1-Dichloroethane	ND	4.08	ND	16.5		203.9
1,1-Dichloroethene	ND	4.08	ND	16.2		203.9
1,2,4-Trimethylbenzene	ND	4.08	ND	20.0		203.9
1,2-Dibromoethane	ND	4.08	ND	31.3		203.9
1,2-Dichlorobenzene	ND	4.08	ND	24.5		203.9
1,2-Dichloroethane	ND	4.08	ND	16.5		203.9
1,2-Dichloropropane	ND	4.08	ND	18.8		203.9
1,3,5-Trimethylbenzene	ND	4.08	ND	20.0		203.9
1,3-Dichlorobenzene	ND	4.08	ND	24.5		203.9
1,4-Dichlorobenzene	ND	4.08	ND	24.5		203.9
Benzene	17.5	14.3	56.0	45.6		203.9
Bromodichloromethane	ND	4.08	ND	27.3		203.9
Bromoform	ND	4.08	ND	42.1		203.9
Carbon tetrachloride	ND	4.08	ND	25.6		203.9
Chlorobenzene	ND	4.08	ND	18.8		203.9
Chloroethane	ND	4.08	ND	10.8		203.9
Chloroform	ND	4.08	ND	19.9		203.9
Chloromethane	ND	102	ND	497		203.9
cis-1,2-Dichloroethene	150	4.08	593	16.2		203.9
cis-1,3-Dichloropropene	ND	4.08	ND	18.5		203.9
Dibromochloromethane	ND	4.08	ND	19.6		203.9

Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-02 D
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 10:48
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	ND	10.2	ND	50.4		203.9
Ethylbenzene	ND	4.08	ND	17.7		203.9
Methylene chloride	ND	102	ND	354		203.9
Methyl tert butyl ether	ND	4.08	ND	14.7		203.9
p/m-Xylene	ND	8.16	ND	35.4		203.9
o-Xylene	ND	4.08	ND	17.7		203.9
Styrene	ND	4.08	ND	17.4		203.9
Tetrachloroethene	ND	4.08	ND	27.6		203.9
Toluene	5.30	4.08	20.0	15.4		203.9
trans-1,2-Dichloroethene	ND	4.08	ND	16.2		203.9
trans-1,3-Dichloropropene	ND	4.08	ND	18.5		203.9
Trichloroethene	37.1	4.08	199	21.9		203.9
Trichlorofluoromethane	ND	10.2	ND	57.2		203.9
Vinyl chloride	63.2	4.08	161	10.4		203.9
Acrylonitrile	ND	102	ND	221		203.9
n-Butylbenzene	ND	102	ND	559		203.9
sec-Butylbenzene	ND	102	ND	559		203.9
Isopropylbenzene	ND	102	ND	501		203.9
p-Isopropyltoluene	ND	102	ND	559		203.9
Acetone	1800	408	4280	968		203.9
2-Butanone	16300	102	48100	300	E	203.9
4-Methyl-2-pentanone	ND	102	ND	417		203.9



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-02 RID
Client ID: MP-3
Sample Location: PROVIDENCE, RI
Matrix: Soil_Vapor
Analytical Method: 48,TO-15-SIM
Analytical Date: 07/30/09 09:37
Analyst: RY

Date Collected: 07/22/09 10:48
Date Received: 07/23/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
2-Butanone	21500	255	63300	751		509.8



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-03 D
 Client ID: MP-4
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/30/09 00:31
 Analyst: RY

Date Collected: 07/22/09 10:58
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.200	ND	1.09		10
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37		10
1,1,2,2-Tetrachloroethane	ND	0.200	ND	1.37		10
1,1,2-Trichloroethane	ND	0.200	ND	1.09		10
1,1-Dichloroethane	ND	0.200	ND	0.809		10
1,1-Dichloroethene	ND	0.200	ND	0.792		10
1,2,4-Trimethylbenzene	ND	0.200	ND	0.982		10
1,2-Dibromoethane	ND	0.200	ND	1.54		10
1,2-Dichlorobenzene	ND	0.200	ND	1.20		10
1,2-Dichloroethane	ND	0.200	ND	0.809		10
1,2-Dichloropropane	ND	0.200	ND	0.924		10
1,3,5-Trimethylbenzene	ND	0.200	ND	0.982		10
1,3-Dichlorobenzene	ND	0.200	ND	1.20		10
1,4-Dichlorobenzene	ND	0.200	ND	1.20		10
Benzene	ND	0.700	ND	2.23		10
Bromodichloromethane	ND	0.200	ND	1.34		10
Bromoform	ND	0.200	ND	2.06		10
Carbon tetrachloride	ND	0.200	ND	1.26		10
Chlorobenzene	ND	0.200	ND	0.920		10
Chloroethane	ND	0.200	ND	0.527		10
Chloroform	ND	0.200	ND	0.976		10
Chloromethane	6.55	5.00	32.0	24.4		10
cis-1,2-Dichloroethene	ND	0.200	ND	0.792		10
cis-1,3-Dichloropropene	ND	0.200	ND	0.907		10
Dibromochloromethane	ND	0.200	ND	0.960		10



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-03 D
 Client ID: MP-4
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 10:58
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.550	0.500	2.72	2.47		10
Ethylbenzene	ND	0.200	ND	0.868		10
Methylene chloride	ND	5.00	ND	17.4		10
Methyl tert butyl ether	ND	0.200	ND	0.720		10
p/m-Xylene	ND	0.400	ND	1.74		10
o-Xylene	ND	0.200	ND	0.868		10
Styrene	ND	0.200	ND	0.851		10
Tetrachloroethene	0.310	0.200	2.10	1.36		10
Toluene	0.590	0.200	2.22	0.753		10
trans-1,2-Dichloroethene	ND	0.200	ND	0.792		10
trans-1,3-Dichloropropene	ND	0.200	ND	0.907		10
Trichloroethene	2.37	0.200	12.7	1.07		10
Trichlorofluoromethane	3.55	0.500	19.9	2.81		10
Vinyl chloride	ND	0.200	ND	0.511		10
Acrylonitrile	ND	5.00	ND	10.8		10
n-Butylbenzene	ND	5.00	ND	27.4		10
sec-Butylbenzene	ND	5.00	ND	27.4		10
Isopropylbenzene	ND	5.00	ND	24.6		10
p-Isopropyltoluene	ND	5.00	ND	27.4		10
Acetone	62.3	20.0	148	47.5		10
2-Butanone	139	5.00	410	14.7		10
4-Methyl-2-pentanone	ND	5.00	ND	20.5		10



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-04 D
 Client ID: MP-6
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/30/09 01:06
 Analyst: RY

Date Collected: 07/23/09 07:30
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.100	ND	0.545		5
1,1,1,2-Tetrachloroethane	ND	0.100	ND	0.686		5
1,1,2,2-Tetrachloroethane	ND	0.100	ND	0.686		5
1,1,2-Trichloroethane	ND	0.100	ND	0.545		5
1,1-Dichloroethane	ND	0.100	ND	0.404		5
1,1-Dichloroethene	ND	0.100	ND	0.396		5
1,2,4-Trimethylbenzene	0.150	0.100	0.737	0.491		5
1,2-Dibromoethane	ND	0.100	ND	0.768		5
1,2-Dichlorobenzene	ND	0.100	ND	0.601		5
1,2-Dichloroethane	ND	0.100	ND	0.404		5
1,2-Dichloropropane	ND	0.100	ND	0.462		5
1,3,5-Trimethylbenzene	ND	0.100	ND	0.491		5
1,3-Dichlorobenzene	ND	0.100	ND	0.601		5
1,4-Dichlorobenzene	ND	0.100	ND	0.601		5
Benzene	0.455	0.350	1.45	1.12		5
Bromodichloromethane	ND	0.100	ND	0.670		5
Bromoform	ND	0.100	ND	1.03		5
Carbon tetrachloride	ND	0.100	ND	0.629		5
Chlorobenzene	ND	0.100	ND	0.460		5
Chloroethane	0.105	0.100	0.277	0.264		5
Chloroform	ND	0.100	ND	0.488		5
Chloromethane	8.60	2.50	41.9	12.2		5
cis-1,2-Dichloroethene	ND	0.100	ND	0.396		5
cis-1,3-Dichloropropene	ND	0.100	ND	0.453		5
Dibromochloromethane	ND	0.100	ND	0.480		5



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-04 D
 Client ID: MP-6
 Sample Location: PROVIDENCE, RI

Date Collected: 07/23/09 07:30
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.505	0.250	2.50	1.24		5
Ethylbenzene	0.265	0.100	1.15	0.434		5
Methylene chloride	ND	2.50	ND	8.68		5
Methyl tert butyl ether	ND	0.100	ND	0.360		5
p/m-Xylene	0.895	0.200	3.88	0.868		5
o-Xylene	0.320	0.100	1.39	0.434		5
Styrene	ND	0.100	ND	0.426		5
Tetrachloroethene	0.455	0.100	3.08	0.678		5
Toluene	1.25	0.100	4.71	0.376		5
trans-1,2-Dichloroethene	ND	0.100	ND	0.396		5
trans-1,3-Dichloropropene	ND	0.100	ND	0.453		5
Trichloroethene	0.595	0.100	3.19	0.537		5
Trichlorofluoromethane	0.610	0.250	3.42	1.40		5
Vinyl chloride	ND	0.100	ND	0.255		5
Acrylonitrile	ND	2.50	ND	5.42		5
n-Butylbenzene	ND	2.50	ND	13.7		5
sec-Butylbenzene	ND	2.50	ND	13.7		5
Isopropylbenzene	ND	2.50	ND	12.3		5
p-Isopropyltoluene	ND	2.50	ND	13.7		5
Acetone	37.0	10.0	87.8	23.7		5
2-Butanone	51.4	2.50	151	7.37		5
4-Methyl-2-pentanone	ND	2.50	ND	10.2		5



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-05
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 22:07
 Analyst: RY

Date Collected: 07/22/09 11:04
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	11.5	0.020	56.4	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	4.63	0.020	22.7	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.058	0.020	0.348	0.120		1
Benzene	1.34	0.070	4.27	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.082	0.020	0.515	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.020	0.020	ND	0.053		1
Chloroform	0.088	0.020	0.429	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-05
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 11:04
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.479	0.050	2.37	0.247		1
Ethylbenzene	8.82	0.020	38.2	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	38.0	0.040	165	0.174		1
o-Xylene	16.8	0.020	72.7	0.087		1
Styrene	0.141	0.020	0.600	0.085		1
Tetrachloroethene	1.74	0.020	11.8	0.136		1
Toluene	21.3	0.020	80.1	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.066	0.020	0.354	0.107		1
Trichlorofluoromethane	0.229	0.050	1.28	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	0.770	0.500	3.78	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	40.4	2.00	96.0	4.75		1
2-Butanone	7.32	0.500	21.6	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-06
 Client ID: IMP-2
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 22:44
 Analyst: RY

Date Collected: 07/22/09 11:07
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.051	0.020	0.278	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.175	0.020	0.860	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.056	0.020	0.275	0.098		1
1,3-Dichlorobenzene	0.060	0.020	0.360	0.120		1
1,4-Dichlorobenzene	0.102	0.020	0.613	0.120		1
Benzene	0.197	0.070	0.629	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.080	0.020	0.503	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.023	0.020	0.061	0.053		1
Chloroform	0.045	0.020	0.220	0.098		1
Chloromethane	1.29	0.500	6.29	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

SAMPLE RESULTS

Lab ID: L0910102-06
 Client ID: IMP-2
 Sample Location: PROVIDENCE, RI

Date Collected: 07/22/09 11:07
 Date Received: 07/23/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.503	0.050	2.48	0.247		1
Ethylbenzene	0.240	0.020	1.04	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.811	0.040	3.52	0.174		1
o-Xylene	0.293	0.020	1.27	0.087		1
Styrene	0.035	0.020	0.149	0.085		1
Tetrachloroethene	0.480	0.020	3.25	0.136		1
Toluene	1.41	0.020	5.32	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	1.92	0.020	10.3	0.107		1
Trichlorofluoromethane	1.15	0.050	6.46	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	37.1	2.00	88.1	4.75		1
2-Butanone	0.949	0.500	2.80	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 18:13

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG373117-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Butadiene	ND	0.020	ND	0.044		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Bromomethane	ND	0.020	ND	0.078		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1



Project Name: ALVEREZ HS
 Project Number: 14613.01

Lab Number: L0910102
 Report Date: 07/30/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
 Analytical Date: 07/29/09 18:13

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG373117-4						
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	ND	0.383		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ND	0.349		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
Naphthalene	0.101	0.050	0.529	0.262		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
1,2,4-Trichlorobenzene	0.067	0.050	0.497	0.371		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Hexachlorobutadiene	ND	0.050	ND	0.192		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 07/29/09 18:13

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-06 Batch: WG373117-4						
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Halothane	ND	0.050	ND	0.403		1
1,2,3-Trichlorobenzene	0.059	0.050	0.437	0.371		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Parameter	LCS %Recovery	LCS %Recovery	LCS %Recovery	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG373117-3					
1,1,1-Trichloroethane	98	-	70-130	-	-
1,1,1,2-Tetrachloroethane	97	-	70-130	-	-
1,1,2,2-Tetrachloroethane	106	-	70-130	-	-
1,1,2-Trichloroethane	102	-	70-130	-	-
1,1-Dichloroethane	94	-	70-130	-	-
1,1-Dichloroethene	86	-	70-130	-	-
1,2,4-Trimethylbenzene	98	-	70-130	-	-
1,2-Dibromoethane	93	-	70-130	-	-
1,2-Dichlorobenzene	96	-	70-130	-	-
1,2-Dichloroethane	103	-	70-130	-	-
1,2-Dichloropropane	103	-	70-130	-	-
1,3,5-Trimethylbenzene	101	-	70-130	-	-
1,3-Butadiene	87	-	70-130	-	-
1,3-Dichlorobenzene	96	-	70-130	-	-
1,4-Dichlorobenzene	95	-	70-130	-	-
Benzene	92	-	70-130	-	-
Bromodichloromethane	105	-	70-130	-	-
Bromoform	108	-	70-130	-	-
Bromomethane	75	-	70-130	-	-
Carbon tetrachloride	92	-	70-130	-	-
Chlorobenzene	102	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Parameter	LCS %Recovery	LCS %Recovery	LCS %Recovery	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG373117-3					
Chloroethane	85	-	70-130	-	-
Chloroform	103	-	70-130	-	-
Chloromethane	91	-	70-130	-	-
cis-1,2-Dichloroethene	91	-	70-130	-	-
cis-1,3-Dichloropropene	89	-	70-130	-	-
Dibromochloromethane	109	-	70-130	-	-
Dichlorodifluoromethane	89	-	70-130	-	-
Ethylbenzene	103	-	70-130	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	84	-	70-130	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	89	-	70-130	-	-
Methylene chloride	95	-	70-130	-	-
Methyl tert butyl ether	100	-	70-130	-	-
Naphthalene	87	-	70-130	-	-
p/m-Xylene	106	-	70-130	-	-
o-Xylene	109	-	70-130	-	-
Styrene	99	-	70-130	-	-
Tetrachloroethene	102	-	70-130	-	-
Toluene	90	-	70-130	-	-
trans-1,2-Dichloroethene	82	-	70-130	-	-
trans-1,3-Dichloropropene	74	-	70-130	-	-
Trichloroethene	95	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
 Project Number: 14613.01
 Lab Number: L0910102
 Report Date: 07/30/09

Parameter	LCS %Recovery	LCS %Recovery	LCS %Recovery	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Batch: WG373117-3					
1,2,4-Trichlorobenzene	101	-	70-130	-	-
Trichlorofluoromethane	90	-	70-130	-	-
Hexachlorobutadiene	104	-	70-130	-	-
Vinyl chloride	88	-	70-130	-	-
Acrylonitrile	98	-	70-130	-	-
n-Butylbenzene	102	-	70-130	-	-
sec-Butylbenzene	95	-	70-130	-	-
Isopropylbenzene	105	-	70-130	-	-
p-Isopropyltoluene	90	-	70-130	-	-
Acetone	114	-	70-130	-	-
2-Butanone	104	-	70-130	-	-
4-Methyl-2-pentanone	106	-	70-130	-	-
Haloethane	115	-	70-130	-	-
1,2,3-Trichlorobenzene	99	-	70-130	-	-



Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG373117-5 QC Sample: L0910102-01 Client ID: MP-1					
1,1,1-Trichloroethane	ND	ND	ppbv	NC	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2-Trichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethene	ND	ND	ppbv	NC	25
1,2,4-Trimethylbenzene	0.710	0.820	ppbv	14	25
1,2-Dibromoethane	ND	ND	ppbv	NC	25
1,2-Dichlorobenzene	ND	ND	ppbv	NC	25
1,2-Dichloroethane	ND	ND	ppbv	NC	25
1,2-Dichloropropane	ND	ND	ppbv	NC	25
1,3,5-Trimethylbenzene	0.610	0.685	ppbv	12	25
1,3-Dichlorobenzene	ND	ND	ppbv	NC	25
1,4-Dichlorobenzene	ND	ND	ppbv	NC	25
Benzene	ND	ND	ppbv	NC	25
Bromodichloromethane	ND	ND	ppbv	NC	25
Bromoform	ND	ND	ppbv	NC	25
Carbon tetrachloride	ND	ND	ppbv	NC	25
Chlorobenzene	ND	ND	ppbv	NC	25

Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG373117-5 QC Sample: L0910102-01 Client ID: MP-1					
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	3.80	3.56	ppbV	7	25
cis-1,2-Dichloroethane	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.490	0.470	ppbV	4	25
Ethylbenzene	2.70	2.26	ppbV	18	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	5.90	5.26	ppbV	11	25
o-Xylene	1.23	1.10	ppbV	11	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	0.240	0.210	ppbV	13	25
Toluene	10.3	8.16	ppbV	23	25
trans-1,2-Dichloroethane	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	0.260	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG373117-5 QC Sample: L0910102-01 Client ID: MP-1					
Vinyl chloride	ND	ND	ppbv	NC	25
Acrylonitrile	ND	ND	ppbv	NC	25
n-Butylbenzene	ND	ND	ppbv	NC	25
sec-Butylbenzene	ND	ND	ppbv	NC	25
Isopropylbenzene	ND	ND	ppbv	NC	25
p-Isopropyltoluene	ND	ND	ppbv	NC	25
Acetone	24.7	21.7	ppbv	13	25
2-Butanone	147	138	ppbv	6	25
4-Methyl-2-pentanone	ND	ND	ppbv	NC	25



Project Name: ALVEREZ HS

Lab Number: L0910102

Project Number: 14613.01

Report Date: 07/30/09

Canister and Flow Controller Information

Samplemum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0910102-01	MP-1	0376	#20 SV		-	-	79	72	9
L0910102-01	MP-1	209	2.7L Can	I0909181	-29.7	-9.0	-	-	-
L0910102-02	MP-3	0151	#16 AMB		-	-	76	78	0
L0910102-02	MP-3	483	2.7L Can	I0909711	-29.7	-6.2	-	-	-
L0910102-03	MP-4	0267	#90 SV		-	-	78	78	0
L0910102-03	MP-4	405	2.7L Can	I0909711	-29.7	-4.7	-	-	-
L0910102-04	MP-6	0152	#90 SV		-	-	76	81	6
L0910102-04	MP-6	125	2.7L Can	I0909711	-29.4	-4.4	-	-	-
L0910102-05	IMP-1	0307	#90 SV		-	-	78	79	4
L0910102-05	IMP-1	141	2.7L Can	I0909181	-29.6	-5.4	-	-	-
L0910102-06	IMP-2	0052	#90 SV		-	-	79	86	8
L0910102-06	IMP-2	179	2.7L Can	I0909711	-29.7	-4.6	-	-	-



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0910102-01A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)
L0910102-02A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)
L0910102-03A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)
L0910102-04A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)
L0910102-05A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)
L0910102-06A	Canister - 2.7 Liter	N/A	NA		NA	Present/Intact	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

GLOSSARY

Acronyms

- EPA** · Environmental Protection Agency.
- LCS** · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD** · Laboratory Control Sample Duplicate: Refer to LCS.
- MS** · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD** · Matrix Spike Sample Duplicate: Refer to MS.
- NA** · Not Applicable.
- NC** · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND** · Not detected at the reported detection limit for the sample.
- NI** · Not Ignitable.
- RDL** · Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD** · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

- *** · The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
- A** · Spectra identified as "Aldol Condensation Product".
- B** · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
- D** · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- N** · The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
- P** · The RPD between the results for the two columns exceeds the method-specified criteria.
- R** · Analytical results are from sample re-analysis.
- RE** · Analytical results are from sample re-extraction.
- J** · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0910102
Report Date: 07/30/09

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 *Organic Parameters:* EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. *Organic Parameters:* SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 *Organic Parameters:* SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. *Organic Parameters:* EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. *NELAP Accredited.*

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. *NELAP Accredited via LA-DEQ.*

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. *NELAP Accredited.*

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. *Organic Parameters:* EPA 8015, 8270.)

U.S. Army Corps of Engineers

AIR ANALYSIS

CHAIN OF CUSTODY

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

Client Information

Client: EA Engineering
 Address: 2350 Post Rd
Warwick, RI 02886
 Phone: 401-736-3440
 Fax: 401-736-3420
 Email: _____

Project Information

Project Name: Averez H.S.
 Project Location: Providence, RI
 Project #: 14613.01
 Project Manager: Mark K. Spear
 ALPHA Quote #: _____

Turn-Around Time: _____
 Standard RUSH (only confirmed if pre-approved)
 Date Due: _____ Time: _____

Date Rec'd in Lab: _____

Report Information - Data Deliverables

FAX
 ADEX
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____

Report to: (if different than Project Manager)
mark & mcs@ea.com
wasped@ea.com

ALPHA Job #: 1011012
 Billing Information
 Same as Client Info PO #: _____

Regulatory Requirements/Report Limits
 State/Fed Program Criteria
AT TARGET 10000
AIR CONCENTRATIONS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID Flow Counter	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum						
0027-1	WP-1	7/22/09	9:01	9:28	-30+	-10	SV	27L	209	0376	PPD=000 ppm
0102-1	WP-3	7/22/09	10:19	10:48	-30+	-10			483	0651	00
	WP-4		10:28	10:58	-30+	-6			405	0267	0.0
	WP-6	7/22/09	7:02	7:30	-30	-4			127	0152	0.0
	WP-1	7/22/09	10:37	11:04	-30+	-7			141	0307	0.0
	WP-2		10:41	11:07	-29	-5			179	0052	0.0

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

Requested By: _____
 Date/Time: _____

Received By: _____
 Date/Time: _____

Container Type: _____

[Handwritten signatures and dates]

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

Appendix E

Rooftop Effluent Analytical Summary and Lab Report

Adelaide Avenue School - Sub Slab Depressurization System Emissions Calculations
 Sample Date - 11 September 2009

Volatile Organic Compounds	ROOFTOP FAN 1 (Measured air flow = 108 cubic feet per minute)				ROOFTOP FAN 2 (Measured air flow = 190 cubic feet per minute)				ROOFTOP FAN 3 (Measured air flow = 124 cubic feet per minute)				CUMULATIVE EMISSIONS (3 fans combined)		
	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)	Concentration (ug/m ³)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)	Hourly Emission (lbs/hour)	Daily Emission (lbs/day)	Yearly Emission (lbs/year)
1,1,1,2-Tetrachloroethane	0.14 U	5.26E-08	1.26E-06	4.61E-04	0.137 U	5.13E-08	1.23E-06	4.50E-04	0.137 U	4.44E-08	1.06E-06	3.89E-04	1.48E-07	3.56E-06	1.30E-03
1,1,1-Trichloroethane	3.580	1.38E-06	3.30E-05	1.21E-02	3.14	1.18E-06	2.82E-05	1.03E-02	3.11	1.01E-06	2.42E-05	8.82E-03	3.56E-06	8.54E-05	3.12E-02
1,1,2,2-Tetrachloroethane	0.137 U	5.26E-08	1.26E-06	4.61E-04	0.137 U	5.13E-08	1.23E-06	4.50E-04	0.137 U	4.44E-08	1.06E-06	3.89E-04	1.48E-07	3.56E-06	1.30E-03
1,1,2-Trichloroethane	0.109 U	4.19E-08	1.01E-06	3.67E-04	0.109 U	4.08E-08	9.80E-07	3.58E-04	0.109 U	3.53E-08	8.47E-07	3.09E-04	1.18E-07	2.83E-06	1.03E-03
1,1-Dichloroethane	0.117	4.50E-08	1.08E-06	3.94E-04	0.081 U	3.03E-08	7.28E-07	2.66E-04	0.081 U	2.62E-08	6.29E-07	2.30E-04	1.02E-07	2.44E-06	8.89E-04
1,1-Dichloroethene	0.079 U	3.04E-08	7.29E-07	2.66E-04	0.079 U	2.96E-08	7.10E-07	2.59E-04	0.079 U	2.56E-08	6.14E-07	2.24E-04	8.55E-08	2.05E-06	7.49E-04
1,2,4-Trimethylbenzene	0.840	3.23E-07	7.75E-06	2.83E-03	0.835	3.13E-07	7.51E-06	2.74E-03	1.53	4.95E-07	1.19E-05	4.34E-03	1.13E-06	2.71E-05	9.91E-03
1,2-Dibromoethane	0.154 U	5.92E-08	1.42E-06	5.18E-04	0.154 U	5.77E-08	1.38E-06	5.05E-04	0.154 U	4.99E-08	1.20E-06	4.37E-04	1.67E-07	4.00E-06	1.46E-03
1,2-Dichlorobenzene	0.120 U	4.61E-08	1.11E-06	4.04E-04	0.120 U	4.49E-08	1.08E-06	3.94E-04	0.120 U	3.88E-08	9.32E-07	3.40E-04	1.30E-07	3.12E-06	1.14E-03
1,2-Dichloroethane	0.109	4.19E-08	1.01E-06	3.67E-04	0.081 U	3.03E-08	7.28E-07	2.66E-04	0.081 U	2.62E-08	6.29E-07	2.30E-04	9.85E-08	2.36E-06	8.62E-04
1,2-Dichloropropane	0.092 U	3.54E-08	8.49E-07	3.10E-04	0.092 U	3.45E-08	8.27E-07	3.02E-04	0.092 U	2.98E-08	7.15E-07	2.61E-04	9.96E-08	2.39E-06	8.72E-04
1,3,5-Trimethylbenzene	0.378	1.45E-07	3.49E-06	1.27E-03	0.285	1.07E-07	2.56E-06	9.35E-04	0.702	2.27E-07	5.45E-06	1.99E-03	4.79E-07	1.15E-05	4.20E-03
1,3-Dichlorobenzene	0.120 U	4.61E-08	1.11E-06	4.04E-04	0.120 U	4.49E-08	1.08E-06	3.94E-04	0.120 U	3.88E-08	9.32E-07	3.40E-04	1.30E-07	3.12E-06	1.14E-03
1,4-Dichlorobenzene	6.010	2.31E-06	5.54E-05	2.02E-02	8.1	3.03E-06	7.28E-05	2.66E-02	0.120 U	3.88E-08	9.32E-07	3.40E-04	5.38E-06	1.29E-04	4.72E-02
2-Butanone	0.791	3.04E-07	7.30E-06	2.66E-03	1.47 U	5.51E-07	1.32E-05	4.82E-03	2.79	9.03E-07	2.17E-05	7.91E-03	1.76E-06	4.22E-05	1.54E-02
4-Methyl-2-pentanone	0.500 U	1.92E-07	4.61E-06	1.68E-03	2.05 U	7.68E-07	1.84E-05	6.73E-03	2.05 U	6.64E-07	1.59E-05	5.81E-03	1.62E-06	3.90E-05	1.42E-02
Acetone	10.600	4.07E-06	9.78E-05	3.57E-02	15.0	5.62E-06	1.35E-04	4.92E-02	30.1	6.64E-06	2.34E-04	8.54E-02	1.94E-05	4.66E-04	1.70E-01
Acrylonitrile	0.500 U	1.92E-07	4.61E-06	1.68E-03	1.08 U	4.05E-07	9.71E-06	3.54E-03	1.08 U	3.50E-07	8.39E-06	3.06E-03	9.46E-07	2.27E-05	8.29E-03
Benzene	0.495	1.90E-07	4.57E-06	1.67E-03	0.587	2.20E-07	5.28E-06	1.93E-03	0.44	1.42E-07	3.42E-06	1.25E-03	5.53E-07	1.33E-05	4.84E-03
Bromodichloromethane	0.134 U	5.15E-08	1.24E-06	4.51E-04	0.134 U	5.02E-08	1.20E-06	4.40E-04	0.134 U	4.34E-08	1.04E-06	3.80E-04	1.45E-07	3.48E-06	1.27E-03
Bromoform	0.206 U	7.92E-08	1.90E-06	6.93E-04	0.206 U	7.72E-08	1.85E-06	6.76E-04	0.206 U	6.77E-08	1.60E-06	5.84E-04	2.23E-07	5.35E-06	1.95E-03
Carbon tetrachloride	0.616	2.37E-07	5.68E-06	2.07E-03	0.616	2.31E-07	5.54E-06	2.02E-03	0.635	2.06E-07	4.93E-06	1.80E-03	6.73E-07	1.62E-05	5.90E-03
Chlorobenzene	0.092 U	3.54E-08	8.49E-07	3.10E-04	0.092 U	3.45E-08	8.27E-07	3.02E-04	0.092 U	2.98E-08	7.15E-07	2.61E-04	9.96E-08	2.39E-06	8.72E-04
Chloroethane	0.161	6.19E-08	1.48E-06	5.42E-04	0.145	5.43E-08	1.30E-06	4.76E-04	0.053 U	1.72E-08	4.12E-07	1.50E-04	1.33E-07	3.20E-06	1.17E-03
Chloroform	0.439	1.69E-07	4.05E-06	1.48E-03	.580	2.17E-07	5.21E-06	1.90E-03	0.610	1.77E-07	4.74E-06	1.73E-03	5.83E-07	1.40E-05	5.11E-03
Chloromethane	2.440 U	9.38E-07	2.25E-05	8.21E-03	2.44 U	9.14E-07	2.19E-05	8.01E-03	2.44 U	7.90E-07	1.90E-05	6.92E-03	2.64E-06	6.34E-05	2.31E-02
cis-1,2-Dichloroethene	0.127	4.88E-08	1.17E-06	4.28E-04	0.079 U	2.96E-08	7.10E-07	2.59E-04	0.079 U	2.56E-08	6.14E-07	2.24E-04	1.04E-07	2.50E-06	9.11E-04
cis-1,3-Dichloropropene	0.091 U	3.50E-08	8.39E-07	3.06E-04	0.091 U	3.41E-08	8.18E-07	2.99E-04	0.091 U	2.95E-08	7.07E-07	2.58E-04	9.85E-08	2.36E-06	8.63E-04
Dibromochloromethane	0.096 U	3.69E-08	8.85E-07	3.23E-04	0.096 U	3.60E-08	8.63E-07	3.15E-04	0.096 U	3.11E-08	7.46E-07	2.72E-04	1.04E-07	2.49E-06	9.10E-04
Dichlorodifluoromethane	2.660	1.02E-06	2.45E-05	8.95E-03	2.65	9.93E-07	2.38E-05	8.70E-03	2.83	9.16E-07	2.20E-05	8.03E-03	2.93E-06	7.03E-05	2.57E-02
Ethylbenzene	0.226	8.68E-08	2.08E-06	7.61E-04	0.212	7.94E-08	1.91E-06	6.96E-04	1.04	3.37E-07	8.08E-06	2.95E-03	5.03E-07	1.21E-05	4.41E-03
Isopropylbenzene	2.460 U	9.45E-07	2.27E-05	8.28E-03	2.46 U	9.21E-07	2.21E-05	8.07E-03	2.46 U	7.96E-07	1.91E-05	6.98E-03	2.66E-06	6.39E-05	2.33E-02
Methyl tert butyl ether	0.072 U	2.77E-08	6.64E-07	2.42E-04	0.072 U	2.70E-08	6.47E-07	2.36E-04	0.072 U	2.33E-08	5.59E-07	2.04E-04	7.79E-08	1.87E-06	6.83E-04
Methylene chloride	1.740 U	6.69E-07	1.60E-05	5.86E-03	1.74 U	6.52E-07	1.56E-05	5.71E-03	1.74 U	5.63E-07	1.35E-05	4.93E-03	1.88E-06	4.52E-05	1.65E-02
n-Butylbenzene	2.740 U	1.05E-06	2.53E-05	9.22E-03	2.74 U	1.03E-06	2.46E-05	8.99E-03	2.74 U	8.87E-07	2.13E-05	7.77E-03	2.97E-06	7.12E-05	2.60E-02
o-Xylene	0.273	1.05E-07	2.52E-06	9.19E-04	0.269	1.01E-07	2.42E-06	8.83E-04	0.529	1.71E-07	4.11E-06	1.50E-03	3.77E-07	9.05E-06	3.30E-03
p-Isopropyltoluene	2.740 U	1.05E-06	2.53E-05	9.22E-03	2.74 U	1.03E-06	2.46E-05	8.99E-03	2.74 U	8.87E-07	2.13E-05	7.77E-03	2.97E-06	7.12E-05	2.60E-02
p/m-Xylene	0.764	2.94E-07	7.05E-06	2.57E-03	0.759	2.84E-07	6.82E-06	2.49E-03	2.11	6.83E-07	1.64E-05	5.98E-03	1.26E-06	3.03E-05	1.10E-02
sec-Butylbenzene	2.740 U	1.05E-06	2.53E-05	9.22E-03	2.74 U	1.03E-06	2.46E-05	8.99E-03	2.74 U	8.87E-07	2.13E-05	7.77E-03	2.97E-06	7.12E-05	2.60E-02
Styrene	0.179	6.88E-08	1.65E-06	6.03E-04	0.136	5.09E-08	1.22E-06	4.46E-04	0.098	3.17E-08	7.61E-07	2.78E-04	1.51E-07	3.63E-06	1.33E-03
Tetrachloroethene	33.000	1.27E-05	3.04E-04	1.11E-01	12.8	4.79E-06	1.15E-04	4.20E-02	114	3.69E-05	8.86E-04	3.23E-01	5.44E-05	1.31E-03	4.76E-01
Toluene	0.956	3.67E-07	8.82E-06	3.22E-03	0.817	3.06E-07	7.34E-06	2.68E-03	2.32	7.51E-07	1.80E-05	6.58E-03	1.42E-06	3.42E-05	1.25E-02
trans-1,2-Dichloroethene	0.079 U	3.04E-08	7.29E-07	2.66E-04	0.079 U	2.96E-08	7.10E-07	2.59E-04	0.079 U	2.56E-08	6.14E-07	2.24E-04	8.55E-08	2.05E-06	7.49E-04
trans-1,3-Dichloropropene	0.091 U	3.50E-08	8.39E-07	3.06E-04	0.091 U	3.41E-08	8.18E-07	2.99E-04	0.091 U	2.95E-08	7.07E-07	2.58E-04	9.85E-08	2.36E-06	8.63E-04
Trichloroethene	100.000	3.84E-05	9.22E-04	3.37E-01	100	3.75E-05	8.99E-04	3.28E-01	40.9	1.32E-05	3.18E-04	1.16E-01	8.91E-05	2.14E-03	7.81E-01
Trichlorofluoromethane	119.000	4.57E-05	1.10E-03	4.01E-01	234	8.76E-05	2.10E-03	7.68E-01	72.1	2.33E-05	5.60E-04	2.04E-01	1.57E-04	3.76E-03	1.37E+00
Vinyl chloride	0.051 U	1.96E-08	4.70E-07	1.72E-04	0.051 U	1.91E-08	4.58E-07	1.67E-04	0.051 U	1.65E-08	3.96E-07	1.45E-04	5.52E-08	1.33E-06	4.84E-04
Total VOCs	2.99E+02	Not Applicable	Not Applicable	1.06E+00	3.87E+02	Not Applicable	Not Applicable	2.41E+00	2.95E+02	Not Applicable	Not Applicable	1.20E+00	Not Applicable	Not Applicable	3.17E+00
RIDEM Air Pollution Control Permit Applicability Thresholds (lbs) *	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	Not Applicable	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	Not Applicable	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	10	100	20,000 (Individual VOCs) 50,000 (Total VOCs)	

U indicates that chemical was not detected by the laboratory. To be conservative, the reporting limit shown in the concentration column was used in the emissions calculations.

Hourly Emissions (lbs/hour) = VOC concentration (ug/m³) x measured flow rate (cfm) x 0.02832 m³/ft³ x 60 min/hour x 0.001 mg/ug x 0.001 g/mg x 0.0022 lb/g

Daily Emissions (lbs/day) = Hourly Emissions x 24 hours/day

Yearly Emissions (lbs/year) = Daily Emissions x 365 days/year.

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



ANALYTICAL REPORT

Lab Number: L0912807
Client: EA Engineering, Science and Tech
2350 Post Road
Warwick, RI 02886
ATTN: Mark Speer
Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01
Report Date: 09/21/09

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

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



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0912807-01	ROOFTOP FAN 1	PROVIDENCE, RI	09/11/09 11:30
L0912807-02	ROOFTOP FAN 2	PROVIDENCE, RI	09/11/09 11:25
L0912807-03	ROOFTOP FAN 3	PROVIDENCE, RI	09/11/09 10:32

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Case Narrative

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

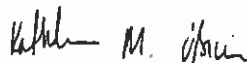
Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 09/21/09

AIR

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-01
Client ID: ROOFTOP FAN 1
Sample Location: PROVIDENCE, RI
Matrix: Soil_Vapor
Analytical Method: 48,TO-15-SIM
Analytical Date: 09/18/09 22:29
Analyst: RY

Date Collected: 09/11/09 11:30
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.656	0.020	3.58	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	0.029	0.020	0.117	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.171	0.020	0.840	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.027	0.020	0.109	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.077	0.020	0.378	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	1.00	0.020	6.01	0.120		1
Benzene	0.155	0.070	0.495	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.098	0.020	0.616	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.061	0.020	0.161	0.053		1
Chloroform	0.090	0.020	0.439	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	0.032	0.020	0.127	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-01
Client ID: ROOFTOP FAN 1
Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 11:30
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.538	0.050	2.66	0.247		1
Ethylbenzene	0.052	0.020	0.226	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.176	0.040	0.764	0.174		1
o-Xylene	0.063	0.020	0.273	0.087		1
Styrene	0.042	0.020	0.179	0.085		1
Tetrachloroethene	4.87	0.020	33.0	0.136		1
Toluene	0.254	0.020	0.956	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	18.7	0.020	100	0.107		1
Trichlorofluoromethane	21.2	0.050	119	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	10.6	2.00	25.2	4.75		1
2-Butanone	0.791	0.500	2.33	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-02
Client ID: ROOFTOP FAN 2
Sample Location: PROVIDENCE, RI
Matrix: Soil_Vapor
Analytical Method: 48,TO-15-SIM
Analytical Date: 09/18/09 23:46
Analyst: RY

Date Collected: 09/11/09 11:25
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.577	0.020	3.14	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.170	0.020	0.835	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.058	0.020	0.285	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	1.35	0.020	8.10	0.120		1
Benzene	0.184	0.070	0.587	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.098	0.020	0.616	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.055	0.020	0.145	0.053		1
Chloroform	0.119	0.020	0.580	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-02
Client ID: ROOFTOP FAN 2
Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 11:25
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.537	0.050	2.65	0.247		1
Ethylbenzene	0.049	0.020	0.212	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.175	0.040	0.759	0.174		1
o-Xylene	0.062	0.020	0.269	0.087		1
Styrene	0.032	0.020	0.136	0.085		1
Tetrachloroethene	1.90	0.020	12.8	0.136		1
Toluene	0.217	0.020	0.817	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	18.7	0.020	100	0.107		1
Trichlorofluoromethane	41.7	0.050	234	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	6.34	2.00	15.0	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-03
Client ID: ROOFTOP FAN 3
Sample Location: PROVIDENCE, RI

Date Collected: 09/11/09 10:32
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.572	0.050	2.83	0.247		1
Ethylbenzene	0.239	0.020	1.04	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.486	0.040	2.11	0.174		1
o-Xylene	0.122	0.020	0.529	0.087		1
Styrene	0.023	0.020	0.098	0.085		1
Tetrachloroethene	16.9	0.020	114	0.136		1
Toluene	0.617	0.020	2.32	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	7.62	0.020	40.9	0.107		1
Trichlorofluoromethane	12.8	0.050	72.1	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	12.7	2.00	30.1	4.75		1
2-Butanone	0.946	0.500	2.79	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

SAMPLE RESULTS

Lab ID: L0912807-03
Client ID: ROOFTOP FAN 3
Sample Location: PROVIDENCE, RI
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/19/09 00:25
Analyst: RY

Date Collected: 09/11/09 10:32
Date Received: 09/14/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.571	0.020	3.11	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.311	0.020	1.53	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.143	0.020	0.702	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	1.58	0.020	9.51	0.120		1
Benzene	0.138	0.070	0.440	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.101	0.020	0.635	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.125	0.020	0.610	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Butadiene	ND	0.020	ND	0.044		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Bromomethane	ND	0.020	ND	0.078		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	ND	0.383		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	ND	0.349		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
Naphthalene	ND	0.050	ND	0.262		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
1,2,4-Trichlorobenzene	ND	0.050	ND	0.371		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Hexachlorobutadiene	ND	0.050	ND	0.192		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 09/18/09 15:39

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG380459-4						
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Halothane	ND	0.050	ND	0.403		1
1,2,3-Trichlorobenzene	ND	0.050	ND	0.371		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3					
1,1,1-Trichloroethane	116	-	70-130	-	-
1,1,1,2-Tetrachloroethane	105	-	70-130	-	-
1,1,2,2-Tetrachloroethane	103	-	70-130	-	-
1,1,2-Trichloroethane	113	-	70-130	-	-
1,1-Dichloroethane	105	-	70-130	-	-
1,1-Dichloroethene	99	-	70-130	-	-
1,2,4-Trimethylbenzene	100	-	70-130	-	-
1,2-Dibromoethane	98	-	70-130	-	-
1,2-Dichlorobenzene	101	-	70-130	-	-
1,2-Dichloroethane	123	-	70-130	-	-
1,2-Dichloropropane	105	-	70-130	-	-
1,3,5-Trimethylbenzene	100	-	70-130	-	-
1,3-Butadiene	98	-	70-130	-	-
1,3-Dichlorobenzene	102	-	70-130	-	-
1,4-Dichlorobenzene	99	-	70-130	-	-
Benzene	92	-	70-130	-	-
Bromodichloromethane	106	-	70-130	-	-
Bromoform	107	-	70-130	-	-
Bromomethane	91	-	70-130	-	-
Carbon tetrachloride	120	-	70-130	-	-
Chlorobenzene	107	-	70-130	-	-

Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3						
Chloroethane	102	-	-	70-130	-	-
Chloroform	117	-	-	70-130	-	-
Chloromethane	100	-	-	70-130	-	-
cis-1,2-Dichloroethane	104	-	-	70-130	-	-
cis-1,3-Dichloropropene	93	-	-	70-130	-	-
Dibromochloromethane	106	-	-	70-130	-	-
Dichlorodifluoromethane	121	-	-	70-130	-	-
Ethylbenzene	104	-	-	70-130	-	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	105	-	-	70-130	-	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	118	-	-	70-130	-	-
Methylene chloride	96	-	-	70-130	-	-
Methyl tert butyl ether	99	-	-	70-130	-	-
Naphthalene	70	-	-	70-130	-	-
p/m-Xylene	106	-	-	70-130	-	-
o-Xylene	105	-	-	70-130	-	-
Styrene	100	-	-	70-130	-	-
Tetrachloroethene	104	-	-	70-130	-	-
Toluene	92	-	-	70-130	-	-
trans-1,2-Dichloroethene	96	-	-	70-130	-	-
trans-1,3-Dichloropropene	78	-	-	70-130	-	-
Trichloroethene	101	-	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG380459-3					
1,2,4-Trichlorobenzene	79	-	70-130	-	-
Trichlorofluoromethane	126	-	70-130	-	-
Hexachlorobutadiene	88	-	70-130	-	-
Vinyl chloride	105	-	70-130	-	-
Acrylonitrile	92	-	70-130	-	-
n-Butylbenzene	75	-	70-130	-	-
sec-Butylbenzene	83	-	70-130	-	-
Isopropylbenzene	89	-	70-130	-	-
p-Isopropyltoluene	74	-	70-130	-	-
Acetone	91	-	70-130	-	-
2-Butanone	88	-	70-130	-	-
4-Methyl-2-pentanone	100	-	70-130	-	-
Halothane	120	-	70-130	-	-
1,2,3-Trichlorobenzene	77	-	70-130	-	-



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP FAN 1					
1,1,1-Trichloroethane	0.656	0.660	ppbV	1	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	0.029	0.031	ppbV	7	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.171	0.163	ppbV	5	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	0.027	0.026	ppbV	4	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	0.077	0.071	ppbV	8	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	1.00	0.951	ppbV	5	25
Benzene	0.155	0.195	ppbV	23	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.098	0.099	ppbV	1	25
Chlorobenzene	ND	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP FAN 1					
Chloroethane	0.061	0.059	ppbV	3	25
Chloroform	0.090	0.090	ppbV	0	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	0.032	0.033	ppbV	3	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.538	0.549	ppbV	2	25
Ethylbenzene	0.052	0.049	ppbV	6	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	0.176	0.167	ppbV	5	25
o-Xylene	0.063	0.059	ppbV	7	25
Styrene	0.042	0.041	ppbV	2	25
Tetrachloroethene	4.87	4.83	ppbV	1	25
Toluene	0.254	0.250	ppbV	2	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	18.7	18.7	ppbV	0	25
Trichlorofluoromethane	21.2	22.0	ppbV	4	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG380459-5 QC Sample: L0912807-01 Client ID: ROOFTOP FAN 1					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
Acetone	10.6	10.4	ppbV	2	25
2-Butanone	0.791	0.768	ppbV	3	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

Canister and Flow Controller Information

Samplemum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0912807-01	ROOFTOP FAN 1	139	2.7L Can	10912468	-29.8	-3.3	-	-	-
L0912807-02	ROOFTOP FAN 2	455	2.7L Can	10912468	-29.8	-1.6	-	-	-
L0912807-03	ROOFTOP FAN 3	231	2.7L Can	10912468	-29.8	-1.7	-	-	-



Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0912807-01A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L0912807-02A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)
L0912807-03A	Canister - 2.7 Liter	N/A	N/A		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L0912807

Project Number: 14687.01

Report Date: 09/21/09

GLOSSARY

Acronyms

- EPA · Environmental Protection Agency.
- LCS · Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD · Laboratory Control Sample Duplicate: Refer to LCS.
- MS · Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD · Matrix Spike Sample Duplicate: Refer to MS.
- NA · Not Applicable.
- NC · Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND · Not detected at the reported detection limit for the sample.
- NI · Not Ignitable.
- RDL · Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD · Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

- A** · Spectra identified as "Aldol Condensation Product".
- B** · The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** · Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** · Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** · The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- P** · The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** · The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- R** · Analytical results are from sample re-analysis.
- RE** · Analytical results are from sample re-extraction.
- J** · Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: ALVAREZ HIGH SCHOOL
Project Number: 14687.01

Lab Number: L0912807
Report Date: 09/21/09

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

Appendix F

Laboratory Reporting Limits Correspondence



September 4, 2009

To: Ron Mack
EA Engineering, Science, & Technology
2350 Post Road
Warwick, RI 02886

From: Katie O'Brien
Alpha Analytical
320 Forbes Blvd
Mansfield, MA 01581

Re: TO15 SIM Reporting Limits

Dear Ron,

As we communicated prior to the TO-15 SIM analyses completed for the Alverez High School air samples collected on July 22nd and 23rd, the SIM Reporting Limits achieved for the following compounds are the lowest that we can currently achieve at Alpha. Please note that these reporting limits are above the Draft Proposed CT RSR (Residential) Criteria for these compounds:

1,2-Dichloroethane SIM RL = 0.08 ug/m³
Ethylene Dibromide (a.k.a. 1,2-Dibromoethane) SIM RL = 0.15 ug/m³
1,1,1,2- Tetrachloroethane SIM RL = 0.14 ug/m³
1,1,2,2-Tetrachloroethane SIM RL = 0.14 ug/m³
Bromodichloromethane SIM RL = 0.13 ug/m³

Please don't hesitate to contact me at 508-844-4156 if you have any questions.

Best Regards,

Katie O'Brien



September 21, 2009

To: Ron Mack
EA Engineering, Science, & Technology
2350 Post Road
Warwick, RI 02886

From: Katie O'Brien
Alpha Analytical
320 Forbes Blvd
Mansfield, MA 01581

Re: TO15 SIM Reporting Limits

Dear Ron,

As we communicated prior to the TO-15 SIM analyses completed for the Alverez High School air samples collected on September 11th; the SIM Reporting Limits achieved for the following compounds are the lowest that we can currently achieve at Alpha. Please note that these reporting limits are above the Draft Proposed CT RSR (Residential) Criteria for these compounds:

1,2-Dichloroethane SIM RL = 0.08 ug/m³
Ethylene Dibromide (a.k.a. 1,2-Dibromoethane) SIM RL = 0.15 ug/m³
1,1,1,2- Tetrachloroethane SIM RL = 0.14 ug/m³
1,1,2,2-Tetrachloroethane SIM RL = 0.14 ug/m³
Bromodichloromethane SIM RL = 0.13 ug/m³

Please don't hesitate to contact me at 508-844-4156 if you have any questions.

Best Regards,

Katie O'Brien