



EA Engineering, Science, and Technology, Inc.

Airport Professional Park
2350 Post Road
Warwick, Rhode Island 02886
Telephone: 401-736-3440
Fax: 401-736-3423
www.eaest.com

21 August 2007

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

RE: 30 July 2007 Air Sampling Event/Order of Approval Compliance Follow-Up Letter
Adelaide Avenue School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 61965.01

Dear Mr. Martella:

On behalf of the Providence Department of Public Property (City), EA Engineering, Science, and Technology, Inc. (EA) is providing this letter in accordance with Item 6(e)(vi) of the Department's Order of Approval (OA) issued in June 2006 and amended in February 2007 and also in July 2007 for the referenced Adelaide Avenue School site (the Site). Collectively, the OA and the two amended Orders of Approval are referred to in this correspondence as the Amended OA.

As communicated via telephone message to the Rhode Island Department of Environmental Management (the Department) at approximately 5:15 pm on Monday, 20 August 2007, two volatile organic compounds (VOCs) were identified in indoor air at the site in concentrations that exceed the Indoor Air Action Levels for this project during the sampling event completed on 30 July 2007. Both VOCs, Carbon tetrachloride and Methylene Chloride, were also detected at similar or higher concentrations within outdoor ambient air during the sampling event. We have attached tables summarizing the pertinent data, figures illustrating the sampling locations, and copies of the laboratory analytical reports for your reference (Attachment A).

Summary

In accordance with the Amended OA, EA collected four sub-slab vapor samples, eight indoor air samples, and one ambient air sample at the Site on 29 June 2007, and submitted the samples to Alpha Woods Hole Labs (Mansfield, MA) for analysis of volatile organic compounds (VOCs) via Method TO-15. This was the sixth sampling round completed at the Site. Sub-slab vacuum measurements were also collected on 30 July 2007.

The data collected on 30 July 2007 indicates that:

- There is no evidence that soil vapor intrusion into the newly constructed school is occurring.
- The continuous operation of the SSD system and confirmation of sub-slab vacuum beneath the school between -0.08 and -0.20 inches of water column illustrates ongoing, effective operation of the SSD system and elimination of the soil vapor intrusion pathway at the site.



- None of the VOC compounds of greatest potential concern to human health at this site, as identified by the Agency for Toxic Substances and Disease Registry in their December 2006 Health Consultation, were detected in any of the 48 indoor air samples at concentrations greater than the respective Indoor Air Action Levels.
- Carbon Tetrachloride, a background ambient concentration at the site and in urban communities, has consistently been detected in ambient outdoor air during each of the previous six sampling events completed thus far at concentrations ranging between 0.48 to 0.71 ug/m^3 . During the same sampling events, Carbon Tetrachloride concentrations inside the school building have ranged between 0.36 to 0.79 ug/m^3 . During this sampling event, the ambient outdoor concentration of Carbon Tetrachloride was 0.53 ug/m^3 , and concentrations within the school were similarly between 0.52 and 0.55 ug/m^3 .
- During this sampling event, Methylene Chloride was detected in one indoor air location at a concentration (4.8 ug/m^3) that is greater than the applicable Action Level (3.0 ug/m^3). However, this compound was also detected in ambient outdoor air at a concentration of 6.6 ug/m^3 during this sampling event. Methylene Chloride is a known possible laboratory contaminant, and is also widely used as an industrial solvent and as a paint stripper. It can also be found in certain aerosols, pesticide products, photographic film processes, spray paints, automotive cleaners, and other household products. EA has contacted Alpha Woods Hole Labs, and the data collected suggests that the Methylene Chloride reported in these samples could be a background ambient concentration for this site or may be resultant from inadvertent contamination introduced into the sampling canisters during handling or storage at the laboratory.
- In general, with the exception of one of the sub-slab vapor sample (MP-4) collected during this sampling round, all sub slab vapor samples continue to illustrate a decrease in the concentrations of two construction-related VOC compounds (Acetone and 2-Butanone) detected in the sub-slab samples due to the use of PVC primer and glue during construction of the sampling probes.
- None of the other sub-slab VOC data is indicative of an increase in the potential for soil vapor intrusion.

In conclusion, we continue to be encouraged by the results of the sampling and monitoring efforts completed thus far at the site, the SSD System continues to operate according to design, and data collected to date indicates that no soil vapor intrusion is occurring. Therefore, no SSD System modifications or other actions to address current site conditions are warranted or proposed at this time.

In accordance with the Amended OA, three new sub-slab monitoring probes were installed at the site on 9 August 2007, and the next air monitoring and sampling round is scheduled for 22 August 2007.



We trust that this correspondence satisfies OA Provision 6(e)(vi). However, if you have any questions or require additional information, please do not hesitate to contact me at 401-736-3440, Ext. 216.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

A handwritten signature in black ink that reads "Peter M. Grivers". The signature is written in a cursive style with a large, looping 'P' and a long, sweeping tail.

Peter M. Grivers, P.E., LSP
Project Manager

Attachments

cc: J. Simmons, City of Providence
A. Sepe, Providence Department of Public Property
J. Fernandez, City of Providence Law Department
S. Rapport, City of Providence Law Department
J. Boehnert, Partridge, Snow, & Hahn
J. Ryan, Partridge, Snow, & Hahn
T. Deller, Providence Redevelopment Agency
T. Gray, RIDEM Bureau of Environmental Protection
J. Langlois, RIDEM Legal Services
L. Hellested, RIDEM Office of Waste Management
K. Owens, RIDEM Office of Waste Management
C. Walusiak, RIDEM Office of Waste Management
R. Dorr, Neighborhood Resident
Principal, Adelaide High School
Former Gorham Site, Parcel B – Knight Memorial Library Repository

Attachment A

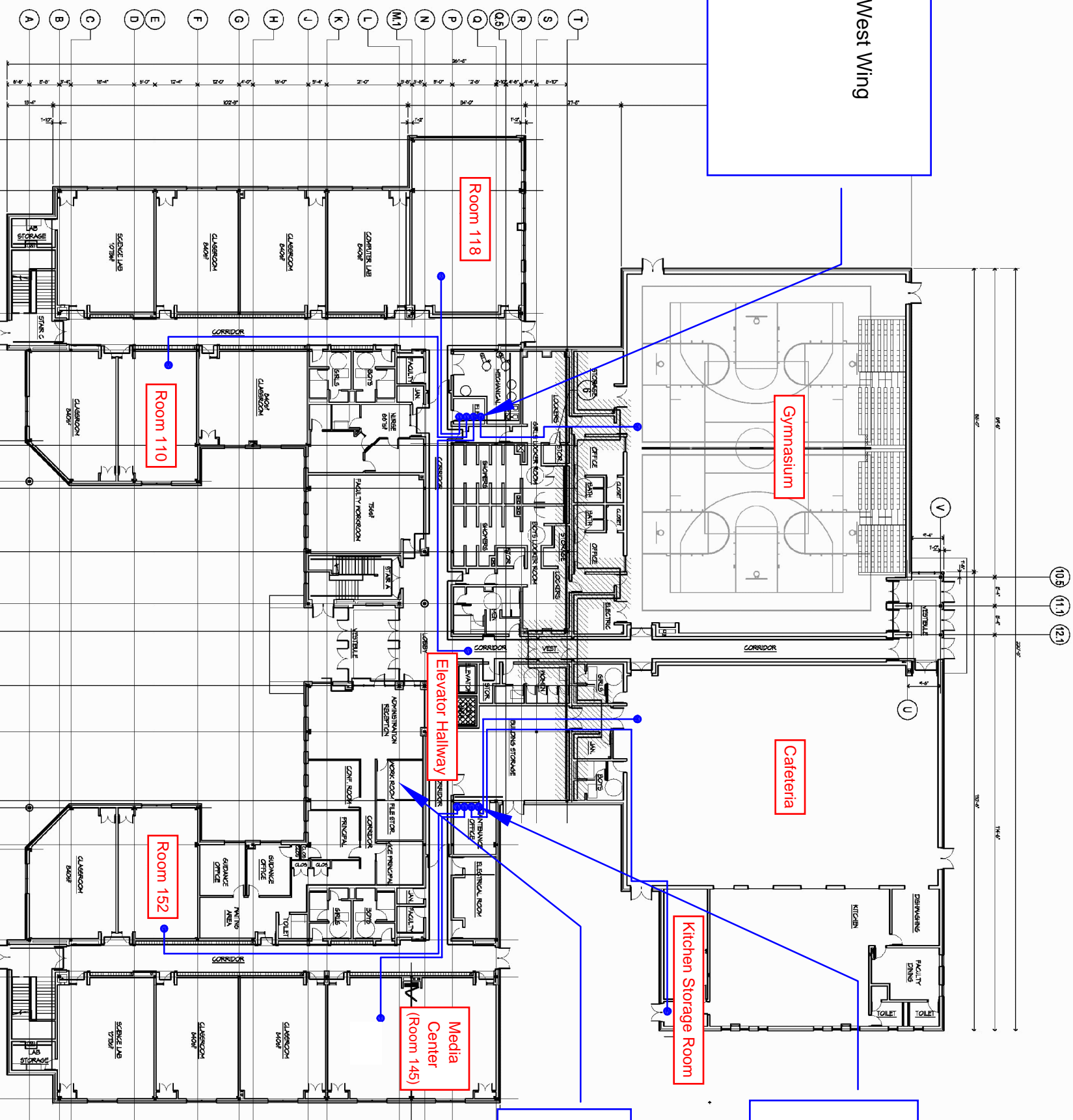
**Sampling Location Maps, Data Tables,
and Laboratory Reports – 30 July 2007**

Methane Sensor Location in West Wing
Electrical Room Area

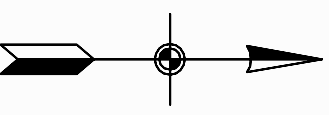
Methane Sensor Location in East Wing
Electrical Room/Maintenance Office Area.

Methane System Controller Location
Administration Work Room

NOTE: NOT TO SCALE



PROJECT NORTH



DESIGNED BY PMG	DRAWN BY PMG	DATE 4-3-07	PROJECT NO. 61965.01	FILE NAME Gorham Layout
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. -	FIGURE N/A

INDOOR AIR SAMPLING AND METHANE MONITORING
SYSTEM DIAGRAM - GORHAM HIGH SCHOOL
PROVIDENCE, RHODE ISLAND

LETTER ATTACHMENT
FIGURE



**Summary of Indoor Air Sampling Data - Adelaide Avenue School Project - Volatile Organic Compounds
Sampling Event - July 30, 2007**


Volatile Organic Compounds via TO-15	CT Draft Proposed	CT Existing Indoor	NYSDOH		Kitchen Storage Room		Cafeteria		Gymnasium		Elevator Hallway		Room 118		Room 110		Media Center (Rm 145)		Room 152		Ambient Outdoor		
	Indoor Residential Target	Residential Target	Air Guideline	Units		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual	
	Air Concentrations *	Air Concentrations **	Values***																				
Carbon tetrachloride ¹	0.5	1	None	µg/m ³	0.53		0.55		0.52		0.53		0.53		0.55		0.52		0.53		0.53		
Methylene Chloride ²	3	45	60	µg/m ³	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U	4.8		2.8	U	2.8	U	6.6		

* State of Connecticut Draft Proposed Indoor Residential Target Air Concentrations [Proposed Revisions to Connecticut's Remediation Standard Regulations Volatilization Criteria, CTDEP, March 2003]; These concentrations have been established as Action Levels for indoor air in the RIDEM Order of Approval [June 2006, Amended February 2007] with the exception of several compounds (1,2-Dichloroethane, Bromodichloromethane, 1,2-Dibromoethane, 1,1,1,2-Tetrachloroethane, and 1,1,2,2-Tetrachloroethane) where laboratory reporting limits can not achieve these concentrations.

** State of Connecticut Existing Indoor Residential Target Air Concentrations [Remediation Standard Regulations, CTDEP, 1996]. Please note, these concentrations are provided for comparative purposes only and are not Action Levels for the Adelaide Avenue School project. "None" indicates that no target air concentration has been established for this compound by CTDEP.

*** New York State Department of Health (NYSDOH) air guideline concentrations [Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, NYSDOH, October 2006]. Please note, these concentrations are provided for comparative purposes only and are not Action Levels for the Adelaide Avenue School project. "None" indicates that no air guideline has been established for this compound by NYSDOH.

U: designation indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column.

: gray shading indicates that the sample concentration for this compound exceeds the applicable Indoor Air Action Level.

1: Carbon Tetrachloride is a manufactured chemical used in aerosols, cleaning fluids, fire extinguishers, and degreasing agents. This compound was measured at 0.50 ug/m3 in ambient outdoor air and was not detected in soil vapor at the site in 2005 at a reporting limit of 3.1 ug/m3.

2: Methylene Chloride is used as an industrial solvent and as a paint stripper. It can be found in certain aerosol and pesticide products and is used in the manufacture of photographic film. The chemical may be found in some spray paints, automotive cleaners, and other household products. Most of the methylene chloride released to the environment results from its use as an end product by various industries and the use of aerosol products and paint removers. Methylene Chloride was found in one indoor air sample collected during this sampling round, but was also detected at a higher concentration in ambient outdoor air (6.6 ug/m3). Therefore, background ambient air is the most likely contributor of the Methylene Chloride.



ANALYTICAL REPORT

Prepared for:

EA Engineering, Science & Technology

2350 Post Road

Warwick, RI 02886

Project: Adelaide Ave. School

ETR: 0708008

Report Date: August 15, 2007

Certifications and Accreditations

Massachusetts M-MA030

Connecticut PH-0141

New Hampshire 2206

Rhode Island LAO00289

New Jersey MA015

Maine MA0030

New York 11627

Louisiana 03090

Florida E87814

Pennsylvania 68-02089

Army Corps of Engineers

Department of the Navy

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School

Lab Code: MA00030
ETR: 0708008

Lab Sample ID	Client Sample ID
0708008-01	Gym
0708008-02	Cafeteria
0708008-03	Kitchen Storage
0708008-04	Elevator Hallway
0708008-05	Room 145
0708008-06	Room 152
0708008-07	Room 118
0708008-08	Room 110
0708008-09	Ambient Outdoor

CASE NARRATIVE

Alpha Woods Hole Lab

ETR: 0708008


Project: Adelaide Ave. School

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter.

Volatile Organics by TO-15 SIM

1. The specified quality control measures were met.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by:  Title: Organics Manager Date: 8/15/07
Elizabeth Porta
Organics Manager

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Gym**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-01**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.45	2.2
Chloromethane	0.58	1.2
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	9.0	21
Trichlorofluoromethane	0.26	1.5
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.04	0.15
2-Butanone	3.1	9.2
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.19
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.21	0.67
Carbon tetrachloride	0.08	0.52
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.08	0.40
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	1.3	5.0
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.11	0.73
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.76	3.3
p+m-Xylene	2.2	9.5
Bromoform	0.02 U	0.21 U
Styrene	0.04	0.15

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Gym**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-01**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.64	2.8
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.57	2.8
1,2,4-Trimethylbenzene	1.2	6.0
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.09	0.55
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Cafeteria
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-02
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.48	2.4
Chloromethane	0.55	1.1
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	7.6	18
Trichlorofluoromethane	0.28	1.6
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.03	0.11
2-Butanone	1.3	3.9
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.19
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.22	0.71
Carbon tetrachloride	0.09	0.55
1,2-Dichloropropane	0.02	0.10
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.08	0.42
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	1.3	5.0
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.12	0.78
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.38	1.7
p+m-Xylene	1.1	4.6
Bromoform	0.02 U	0.21 U
Styrene	0.06	0.26

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Cafeteria**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-02**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.34	1.5
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.51	2.5
1,2,4-Trimethylbenzene	0.96	4.7
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.08	0.45
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Kitchen Storage
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-03
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.45	2.2
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	9.5	22
Trichlorofluoromethane	0.25	1.4
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.03	0.12
2-Butanone	2.7	8.1
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.20
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.23	0.74
Carbon tetrachloride	0.08	0.52
1,2-Dichloropropane	0.02	0.10
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.08	0.44
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	1.4	5.4
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.11	0.75
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.03	0.12
Ethylbenzene	0.47	2.0
p+m-Xylene	1.3	5.6
Bromoform	0.02 U	0.21 U
Styrene	2.1	8.8

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Kitchen Storage
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-03
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.45	1.9
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.92	4.5
1,2,4-Trimethylbenzene	1.7	8.4
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.36	2.2
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



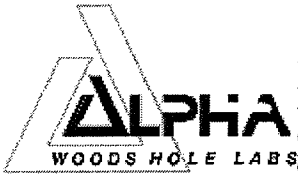
Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Elevator Hallway**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-04**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.46	2.2
Chloromethane	0.50	1.0
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	8.5	20
Trichlorofluoromethane	0.25	1.4
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.03	0.11
2-Butanone	1.7	5.1
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.18
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.23	0.72
Carbon tetrachloride	0.08	0.53
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.08	0.41
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	1.1	4.2
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.10	0.70
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.28	1.2
p+m-Xylene	0.77	3.3
Bromoform	0.02 U	0.21 U
Styrene	0.08	0.32

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Elevator Hallway**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-04**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.27	1.2
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.65	3.2
1,2,4-Trimethylbenzene	1.2	5.9
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.14	0.87
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 145
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-05
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.48	2.4
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	6.8	16
Trichlorofluoromethane	0.33	1.8
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.02	0.08
2-Butanone	0.98	2.9
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.03	0.14
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.17	0.53
Carbon tetrachloride	0.08	0.52
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.04	0.23
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.62	2.4
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.09	0.59
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.10	0.41
p+m-Xylene	0.18	0.80
Bromoform	0.02 U	0.21 U
Styrene	0.03	0.11

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 145
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-05
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.08	0.36
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.21	1.0
1,2,4-Trimethylbenzene	0.36	1.8
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.18	1.1
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 152**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-06**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.46	2.3
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	7.4	18
Trichlorofluoromethane	0.28	1.6
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.02	0.09
2-Butanone	0.77	2.3
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.17
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.20	0.64
Carbon tetrachloride	0.08	0.53
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.07	0.35
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.77	2.9
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.10	0.68
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.12	0.52
p+m-Xylene	0.26	1.1
Bromoform	0.02 U	0.21 U
Styrene	0.03	0.14

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 152
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-06
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.11	0.46
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.22	1.1
1,2,4-Trimethylbenzene	0.40	2.0
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.31	1.9
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



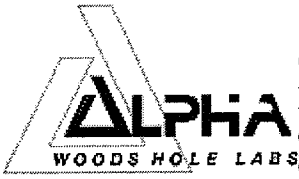
Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 118
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-07
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.46	2.3
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	9.8	23
Trichlorofluoromethane	0.27	1.5
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.03	0.09
2-Butanone	3.2	9.3
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.20
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.22	0.72
Carbon tetrachloride	0.09	0.53
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.19	1.0
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.98	3.7
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.10	0.70
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.21	0.92
p+m-Xylene	0.56	2.4
Bromoform	0.02 U	0.21 U
Styrene	0.06	0.27

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 118
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-07
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.20	0.85
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.39	1.9
1,2,4-Trimethylbenzene	0.75	3.7
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.19	1.1
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Duplicate Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 118**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-07 D**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.45	2.2
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	9.6	23
Trichlorofluoromethane	0.27	1.5
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.03	0.10
2-Butanone	3.2	9.3
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.04	0.20
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.23	0.73
Carbon tetrachloride	0.08	0.53
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.20	1.0
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.97	3.6
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.10	0.70
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.21	0.91
p+m-Xylene	0.56	2.4
Bromoform	0.02 U	0.21 U
Styrene	0.06	0.27

Duplicate Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 118**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-07 D**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.20	0.85
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.38	1.9
1,2,4-Trimethylbenzene	0.75	3.7
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.20	1.2
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 110**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-08**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.48	2.4
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	6.6	16
Trichlorofluoromethane	0.36	2.0
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	1.4	4.8
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.05	0.19
2-Butanone	0.59	1.8
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.03	0.17
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.16	0.51
Carbon tetrachloride	0.09	0.55
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.03	0.14
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.49	1.8
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.07	0.49
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.08	0.35
p+m-Xylene	0.15	0.66
Bromoform	0.02 U	0.21 U
Styrene	0.02	0.10

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Room 110
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-08
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.06	0.28
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.12	0.56
1,2,4-Trimethylbenzene	0.19	0.94
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.14	0.87
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Ambient Outdoor
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-09
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.49	2.4
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	8.6	20
Trichlorofluoromethane	0.38	2.1
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	1.9	6.6
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.06	0.22
2-Butanone	0.55	1.6
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.03	0.16
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.12	0.39
Carbon tetrachloride	0.09	0.53
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.04	0.21
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.30	1.1
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.05	0.36
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.06	0.24
p+m-Xylene	0.10	0.41
Bromoform	0.02 U	0.21 U
Styrene	0.02 U	0.09 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Ambient Outdoor
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: 0708008-09
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.04	0.16
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.02 U	0.10 U
1,2,4-Trimethylbenzene	0.03	0.13
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.19	1.2
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
 Project: Adelaide Ave. School
 Client ID: Blank
 Case: N/A SDG: N/A
 Matrix: Air

Lab Code: MA00030
 ETR: 0708008
 Lab ID: VA081307B14
 Associated Blank: N/A

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result $\mu\text{g}/\text{m}^3$
Dichlorodifluoromethane	0.02 U	0.10 U
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	2.0 U	4.8 U
Trichlorofluoromethane	0.02 U	0.11 U
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.02 U	0.07 U
2-Butanone	0.50 U	1.5 U
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.02 U	0.10 U
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.04 U	0.13 U
Carbon tetrachloride	0.02 U	0.13 U
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.02 U	0.11 U
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.05 U	0.19 U
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.02 U	0.14 U
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.02 U	0.09 U
p+m-Xylene	0.04 U	0.17 U
Bromoform	0.02 U	0.21 U
Styrene	0.02 U	0.09 U

Blank Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Blank
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: VA081307B14
Associated Blank: N/A

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.02 U	0.09 U
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.02 U	0.10 U
1,2,4-Trimethylbenzene	0.02 U	0.10 U
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.02 U	0.12 U
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **See Below**
 Associated Blank: **VA081307B14**
 Concentration Units: **µg/m³**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

VA081307B14

VA081307LCS04

Parameter	Blank		LCS		% Recovery
	Conc.	U	Conc.	% Recovery	Limits
Dichlorodifluoromethane	0.10	U	22	90	70-130
Chloromethane	1.0	U	8.3	80	70-130
Vinyl chloride	0.05	U	10	81	70-130
Chloroethane	0.05	U	11	82	70-130
Acetone	4.8	U	9.2	77	70-130
Trichlorofluoromethane	0.11	U	23	81	70-130
Acrylonitrile	1.1	U	10	92	70-130
1,1-Dichloroethene	0.08	U	15	77	70-130
Methylene chloride	2.8	U	13	73	70-130
trans-1,2-Dichloroethene	0.08	U	15	74	70-130
1,1-Dichloroethane	0.08	U	16	80	70-130
MTBE	0.07	U	14	77	70-130
2-Butanone	1.5	U	12	85	70-130
cis-1,2-Dichloroethene	0.08	U	16	82	70-130
Chloroform	0.10	U	21	85	70-130
1,2-Dichloroethane	0.08	U	17	82	70-130
1,1,1-Trichloroethane	0.11	U	25	91	70-130
Benzene	0.13	U	12	76	70-130
Carbon tetrachloride	0.13	U	27	85	70-130
1,2-Dichloropropane	0.09	U	20	85	70-130
Bromodichloromethane	0.13	U	28	84	70-130
Trichloroethene	0.11	U	21	79	70-130
cis-1,3-Dichloropropene	0.09	U	21	93	70-130
4-Methyl-2-pentanone	2.0	U	16	77	70-130
trans-1,3-Dichloropropene	0.09	U	19	84	70-130
1,1,2-Trichloroethane	0.11	U	23	86	70-130
Toluene	0.19	U	14	77	70-130
Dibromochloromethane	0.17	U	36	86	70-130
1,2-Dibromoethane	0.15	U	32	83	70-130
Tetrachloroethene	0.14	U	26	76	70-130
1,1,1,2-Tetrachloroethane	0.14	U	30	86	70-130
Chlorobenzene	0.09	U	18	80	70-130
Ethylbenzene	0.09	U	18	84	70-130

Laboratory Control Summary

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Laboratory Control Sample
Case: N/A **SDG:** N/A
Matrix: Air

Lab Code: MA00030
ETR: 0708008
Lab ID: See Below
Associated Blank: VA081307B14
Concentration Units: µg/m³

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

VA081307B14

VA081307LCS04

Parameter	Blank		LCS		% Recovery Limits
	Conc.		Conc.	% Recovery	
p+m-Xylene	0.17	U	37	85	70-130
Bromoform	0.21	U	47	92	70-130
Styrene	0.09	U	18	82	70-130
1,1,2,2-Tetrachloroethane	0.14	U	28	81	70-130
o-Xylene	0.09	U	18	85	70-130
Isopropylbenzene	2.5	U	22	90	70-130
1,3,5-Trimethylbenzene	0.10	U	22	91	70-130
1,2,4-Trimethylbenzene	0.10	U	24	98	70-130
1,3-Dichlorobenzene	0.12	U	26	87	70-130
1,4-Dichlorobenzene	0.12	U	26	85	70-130
sec-Butylbenzene	2.5	U	23	95	70-130
p-Isopropyltoluene	2.7	U	24	88	70-130
1,2-Dichlorobenzene	0.12	U	25	84	70-130
n-Butylbenzene	2.7	U	22	79	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

08/15/07 09:43

Duplicate Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 118**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-07**
 Associated Blank: **VA081307B14**
 Concentration Units: **µg/m³**

Date Collected	Date Received		Analyst	
07/30/07	07/31/07		APR	
Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Dichlorodifluoromethane	2.3	2.2	2	25
Chloromethane	1.0 U	1.0 U	N/A	25
Vinyl chloride	0.05 U	0.05 U	N/A	25
Chloroethane	0.05 U	0.05 U	N/A	25
Acetone	23	23	2	25
Trichlorofluoromethane	1.5	1.5	1	25
Acrylonitrile	1.1 U	1.1 U	N/A	25
1,1-Dichloroethene	0.08 U	0.08 U	N/A	25
Methylene chloride	2.8 U	2.8 U	N/A	25
trans-1,2-Dichloroethene	0.08 U	0.08 U	N/A	25
1,1-Dichloroethane	0.08 U	0.08 U	N/A	25
MTBE	0.09	0.10	8	25
2-Butanone	9.3	9.3	0	25
cis-1,2-Dichloroethene	0.08 U	0.08 U	N/A	25
Chloroform	0.20	0.20	0	25
1,2-Dichloroethane	0.08 U	0.08 U	N/A	25
1,1,1-Trichloroethane	0.11 U	0.11 U	N/A	25
Benzene	0.72	0.73	2	25
Carbon tetrachloride	0.53	0.53	1	25
1,2-Dichloropropane	0.09 U	0.09 U	N/A	25
Bromodichloromethane	0.13 U	0.13 U	N/A	25
Trichloroethene	1.0	1.0	1	25
cis-1,3-Dichloropropene	0.09 U	0.09 U	N/A	25
4-Methyl-2-pentanone	2.0 U	2.0 U	N/A	25
trans-1,3-Dichloropropene	0.09 U	0.09 U	N/A	25
1,1,2-Trichloroethane	0.11 U	0.11 U	N/A	25
Toluene	3.7	3.6	1	25
Dibromochloromethane	0.17 U	0.17 U	N/A	25
1,2-Dibromoethane	0.15 U	0.15 U	N/A	25
Tetrachloroethene	0.70	0.70	0	25
1,1,1,2-Tetrachloroethane	0.14 U	0.14 U	N/A	25
Chlorobenzene	0.09 U	0.09 U	N/A	25
Ethylbenzene	0.92	0.91	1	25
p+m-Xylene	2.4	2.4	1	25
Bromoform	0.21 U	0.21 U	N/A	25

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Duplicate Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Room 118**
 Case: **N/A** SDG: **N/A**
 Matrix: **Air**

Lab Code: **MA00030**
 ETR: **0708008**
 Lab ID: **0708008-07**
 Associated Blank: **VA081307B14**
 Concentration Units: **µg/m³**

Date Collected	Date Received		Analyst	
07/30/07	07/31/07		APR	
Parameter	Sample Result	Duplicate Result	RPD	RPD Limit
Styrene	0.27	0.27	0	25
1,1,2,2-Tetrachloroethane	0.14 U	0.14 U	N/A	25
o-Xylene	0.85	0.85	1	25
Isopropylbenzene	2.5 U	2.5 U	N/A	25
1,3,5-Trimethylbenzene	1.9	1.9	2	25
1,2,4-Trimethylbenzene	3.7	3.7	1	25
1,3-Dichlorobenzene	0.12 U	0.12 U	N/A	25
1,4-Dichlorobenzene	1.1	1.2	5	25
sec-Butylbenzene	2.5 U	2.5 U	N/A	25
p-Isopropyltoluene	2.7 U	2.7 U	N/A	25
1,2-Dichlorobenzene	0.12 U	0.12 U	N/A	25
n-Butylbenzene	2.7 U	2.7 U	N/A	25

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

08/15/07 09:46

Sample Receipt Checklist

Client: EABNG	Receipt Date: 7/31/07
Project: ADELAIDE Ave School	Log-in Date: 8/1/07
ETR #: 0708008	Inspection by: ur Login by: ur

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ No, WHG Courier pick-up / Hand delivered	Sample storage refrigerator #: AIR
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / NA	Sample storage freezer #: _____
Number of coolers received for this project delivery: 0	Cooler 2: _____ Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note <u>all</u> samples received <u>above</u> 6°C. Cooler 1: Temperature(s) taken from: _____ IR Gun, _____ Temp. Blank, / NA	
Were samples received on ice? Yes / No	
Chain-of-Custody present? Yes / No Complete? Yes / No	
Custody seals present on Cooler? Yes / No on Bottles? Yes / No Intact? Yes / No / NA	
Note: Affix custody seals to back of this page.	
Were sample containers intact? Yes / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / NA If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / NA If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? Yes / No If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? Yes / No / NA <input type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H ₂ SO ₄ <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO ₃ <input type="checkbox"/> Other: _____ <input type="checkbox"/> U= Unknown	Chemical preservation OK for ALL samples? Yes / No / NA
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO NA If No, why?:	If No, list samples below:
Were samples received within hold time? Yes / No If No, list samples: →	
Discrepancy between samples rec'd & COC? Yes / No If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes / No / NA	
Project Manager Acknowledgement: BMP Date: 8/1/07	Please use back for any additional notes!

Certificate/Approval Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2; Metals: 200.8, 245.1; Organics: 608, 624, 625, ETPH) *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastewater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, 365.2, SM2320B, SM2340B, SM2540G, SM4500NH₃; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Louisiana Department of Environmental Quality Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608, 624, 625, 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: EPA 608, 624).

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608, 624, 625, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

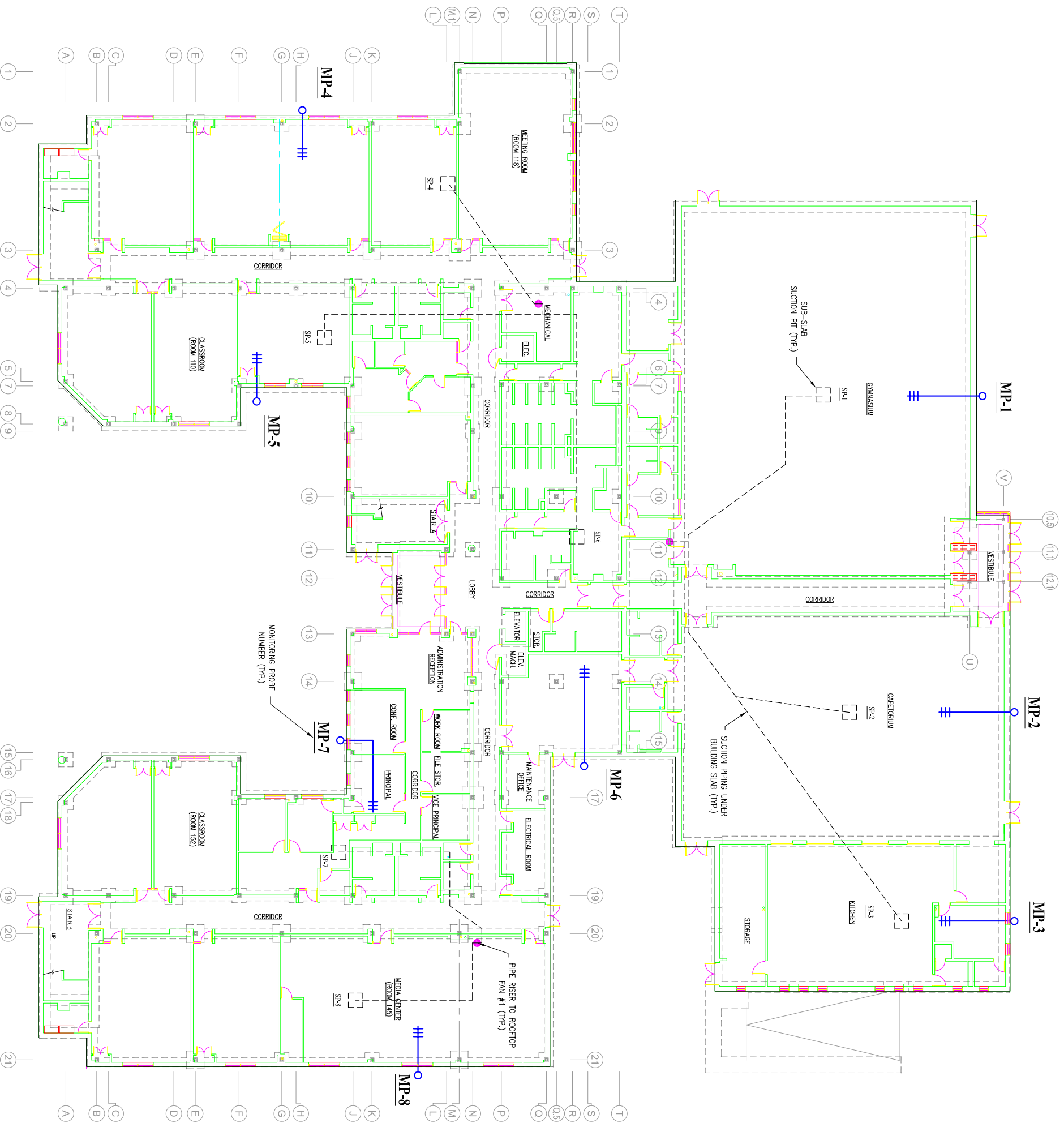
New York Department of Health Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 365.2, 376.2; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; Metals: 245.1; 6020, 7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Rhode Island Department of Health Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

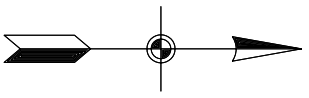
Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-02089 - Registered laboratory

U.S. Army Corps of Engineers

Department of the Navy



PROJECT NORTH



DESIGNED BY PMG	DRAWN BY DMA	DATE MAY 7 2007	PROJECT NO. 61965.01	FILE NAME ATT 5-7-07
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. -	FIGURE N/A

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

LETTER ATTACHMENT FIGURE



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

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
1,1,1,2-Tetrachloroethane	15-Mar-07	620	U	590	U	590	U	600	U	580	U	240	U	91	U	260	U
	22-Mar-07	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	34.3	U
	26-Apr-07	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U
	21-May-07	62.4	U	34.3	U	34.3	U	60.4	U	34.3	U	34.3	U	3.43	U	34.3	U
	29-Jun-07	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	1.4	U	0.69	U	0.69	U
	30-Jul-07	0.69	U	NS		NS		1.4	U	NS		0.69	U	3.4	U	NS	
1,1,2,2-Tetrachloroethane	15-Mar-07	620	U	590	U	590	U	600	U	580	U	240	U	91	U	260	U
	22-Mar-07	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	85.7	U	34.3	U
	26-Apr-07	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U	34.3	U
	21-May-07	62.4	U	34.3	U	34.3	U	60.4	U	34.2	U	34.3	U	3.43	U	34.3	U
	29-Jun-07	0.69	U	0.69	U	0.69	U	0.69	U	0.69	U	1.4	U	0.69	U	0.69	U
	30-Jul-07	0.69	U	NS		NS		1.4	U	NS		0.69	U	3.4	U	NS	
1,1,2-Trichloroethane	15-Mar-07	490	U	470	U	470	U	470	U	460	U	190	U	72	U	200	U
	22-Mar-07	68.1	U	68.1	U	68.1	U	68.1	U	68.1	U	68.1	U	68.1	U	27.2	U
	26-Apr-07	27.2	U	27.2	U	27.2	U	27.2	U	27.2	U	27.2	U	27.2	U	27.2	U
	21-May-07	36.8	U	27.2	U	27.2	U	48.0	U	27.2	U	27.2	U	2.72	U	27.2	U
	29-Jun-07	0.55	U	0.55	U	0.55	U	0.55	U	0.55	U	1.1	U	0.55	U	0.55	U
	30-Jul-07	0.55	U	NS		NS		1.10	U	NS		0.55	U	2.7	U	NS	
1,1-Dichloroethene	15-Mar-07	360	U	340	U	340	U	350	U	340	U	140	U	53	U	150	U
	22-Mar-07	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	19.8	U
	26-Apr-07	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U
	21-May-07	36.0	U	19.8	U	19.8	U	35.6	U	19.8	U	19.8	U	1.98	U	19.8	U
	29-Jun-07	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.79	U	0.4	U	0.4	U
	30-Jul-07	0.4	U	NS		NS		0.79	U	NS		0.4	U	2	U	NS	
1,2,4-Trimethylbenzene	15-Mar-07	440	U	420	U	420	U	430	U	420	U	170	U	65	U	180	U
	22-Mar-07	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	24.6	U
	26-Apr-07	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U
	21-May-07	44.7	U	24.6	U	24.6	U	43.2	U	24.6	U	24.6	U	2.46	U	24.6	U
	29-Jun-07	2.4	U	1.5	U	1.2	U	3.4	U	3.2	U	0.98	U	2.6	U	1.5	U
	30-Jul-07	1.5	U	NS		NS		1.7	U	NS		1.6	U	4.4	U	NS	
1,2-Dibromoethane	15-Mar-07	690	U	660	U	660	U	670	U	650	U	260	U	100	U	290	U
	22-Mar-07	96	U	96	U	96	U	96	U	96	U	96	U	96	U	38.4	U
	26-Apr-07	38.4	U	38.4	U	38.4	U	38.4	U	38.4	U	38.4	U	38.4	U	38.4	U
	21-May-07	69.9	U	38.4	U	38.4	U	67.6	U	38.4	U	38.4	U	3.84	U	38.4	U
	29-Jun-07	0.77	U	0.77	U	0.77	U	0.77	U	0.77	U	1.5	U	0.77	U	0.77	U
	30-Jul-07	0.77	U	NS		NS		1.5	U	NS		0.77	U	3.8	U	NS	
1,2-Dichloroethane	15-Mar-07	370	U	350	U	350	U	350	U	340	U	140	U	53	U	150	U
	22-Mar-07	50.6	U	50.6	U	50.6	U	50.6	U	50.6	U	50.6	U	50.6	U	20.2	U
	26-Apr-07	20.2	U	20.2	U	20.2	U	20.2	U	20.2	U	20.2	U	20.2	U	20.2	U
	21-May-07	36.8	U	20.2	U	20.2	U	35.6	U	20.2	U	20.2	U	2.02	U	20.2	U
	29-Jun-07	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.81	U	0.4	U	0.4	U
	30-Jul-07	0.4	U	NS		NS		0.81	U	NS		0.4	U	2	U	NS	
1,2-Dichloropropane	15-Mar-07	420	U	400	U	400	U	400	U	390	U	160	U	61	U	170	U
	22-Mar-07	57.7	U	57.7	U	57.7	U	57.7	U	57.7	U	57.7	U	57.7	U	23.1	U
	26-Apr-07	23.1	U	23.1	U	23.1	U	23.1	U	23.1	U	23.1	U	23.1	U	23.1	U
	21-May-07	42.0	U	23.1	U	23.1	U	40.6	U	23.1	U	23.1	U	2.31	U	23.1	U
	29-Jun-07	0.46	U	0.46	U	0.46	U	0.46	U	0.46	U	0.92	U	0.46	U	0.46	U
	30-Jul-07	0.46	U	NS		NS		0.92	U	NS		0.46	U	2.3	U	NS	

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

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
1,3,5-Trimethylbenzene	15-Mar-07	440	U	420	U	420	U	430	U	420	U	170	U	65	U	180	U
	22-Mar-07	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	61.4	U	24.6	U
	26-Apr-07	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U	24.6	U
	21-May-07	44.7	U	24.6	U	24.6	U	43.2	U	24.6	U	24.6	U	2.46	U	24.6	U
	29-Jun-07	1.2		0.79		0.59		1.7		1.7		0.98	U	2.6		1.5	
	30-Jul-07	0.74		NS		NS		0.98	U	NS		0.88		2.5		NS	
1,4-Dichlorobenzene	15-Mar-07	540	U	520	U	520	U	520	U	510	U	210	U	79	U	220	U
	22-Mar-07	75.1	U	75.1	U	75.1	U	75.1	U	75.1	U	75.1	U	75.1	U	30	U
	26-Apr-07	30	U	30	U	30	U	30	U	30	U	30	U	30	U	30	U
	21-May-07	54.7	U	30	U	30	U	52.9	U	30	U	30	U	3	U	30	U
	29-Jun-07	69		58		55		68		65		39		75		61	
	30-Jul-07	3.8		NS		NS		2		NS		3.1		7		NS	
2-Butanone	15-Mar-07	19000000		18000000		6000000		16000000		3600000		6800000		700000		6300000	
	22-Mar-07	505000		1180000		3590000		742000		739000		5120000		51900		357000	
	26-Apr-07	26200		15100		67600		19000		22200		93000		2620		43000	
	21-May-07	29500		4360		13600		14100		15900		10700		1.47	U	10200	
	29-Jun-07	7100		6200		8300		11000		9400		21000		2200		12000	
	30-Jul-07	4900		NS		NS		180000		NS		13000		2600		NS	
Acetone	15-Mar-07	2000000		2400000		1300000		1900000		250000		2300000		91000		1110000	
	22-Mar-07	44100		93600		583000		55500		54700		1320000		2390		50100	
	26-Apr-07	1650		1300		14100		1390		2160		30000		188		11000	
	21-May-07	824		1210		5100		761		2390		2740		13.7		2750	
	29-Jun-07	490		410		1100		770		1000		4700		170		1600	
	30-Jul-07	390		NS		NS		14000		NS		3100		190		NS	
Benzene	15-Mar-07	290	U	280	U	280	U	280	U	270	U	110	U	42	U	120	U
	22-Mar-07	39.9	U	39.9	U	39.9	U	39.9	U	39.9	U	39.9	U	39.9	U	16	U
	26-Apr-07	16	U	16	U	16	U	16	U	16	U	16	U	16	U	16	U
	21-May-07	29.0	U	16	U	16	U	28.1	U	16	U	16	U	1.6	U	16	U
	29-Jun-07	0.69		0.64	U	0.73		0.67		0.75		1.3	U	0.83		0.7	
	30-Jul-07	0.67		NS		NS		0.83		NS		0.75		1.6	U	NS	
Bromodichloromethane	15-Mar-07	600	U	580	U	580	U	580	U	570	U	230	U	88	U	250	U
	22-Mar-07	83.7	U	83.7	U	83.7	U	83.7	U	83.7	U	83.7	U	83.7	U	33.5	U
	26-Apr-07	33.5	U	33.5	U	33.5	U	33.5	U	33.5	U	33.5	U	33.5	U	33.5	U
	21-May-07	60.9	U	33.5	U	33.5	U	58.9	U	33.5	U	33.5	U	3.35	U	33.5	U
	29-Jun-07	0.67	U	0.67	U	0.67	U	0.67	U	0.67	U	1.3	U	0.67	U	0.67	U
	30-Jul-07	0.67	U	NS		NS		1.3	U	NS		0.67	U	3.4	U	NS	
cis-1,2-Dichloroethene	15-Mar-07	360	U	340	U	340	U	340	U	340	U	140	U	52	U	150	U
	22-Mar-07	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	49.5	U	19.8	U
	26-Apr-07	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U	19.8	U
	21-May-07	36.0	U	19.8	U	19.8	U	34.9	U	19.8	U	19.8	U	1.98	U	19.8	U
	29-Jun-07	0.5	U	0.45	U	0.45	U	0.45	U	0.45	U	0.91	U	0.45	U	0.45	U
	30-Jul-07	0.4	U	NS		NS		0.79	U	NS		0.4	U	2	U	NS	
Methylene chloride	15-Mar-07	12000	U	12000	U	12000	U	12000	U	14000		4800	U	1800	U	5200	U
	22-Mar-07	86.8	U	86.8	U	86.8	U	86.8	U	86.8	U	86.8	U	86.8	U	34.7	U
	26-Apr-07	34.7	U	34.7	U	34.7	U	34.7	U	34.7	U	34.7	U	34.7	U	69.4	U
	21-May-07	63.2	U	34.7	U	34.7	U	61.1	U	34.7	U	34.7	U	3.47	U	34.7	U
	29-Jun-07	8.7	U	8.7	U	8.7	U	8.7	U	8.7	U	17	U	8.7	U	8.7	U
	30-Jul-07	14	U	NS		NS		28	U	NS		14	U	69	U	NS	

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

Volatile Organic Compounds via TO-15	Sample Date	MP-1		MP-2		MP-3		MP-4		MP-5		MP-6		MP-7		MP-8	
			Qual		Qual		Qual		Qual		Qual		Qual		Qual		Qual
Tetrachloroethene	15-Mar-07	610	U	580		580	U	590	U	580	U	230	U	90	U	250	U
	22-Mar-07	84.7	U	84.7	U	84.7	U	84.7	U	84.7	U	84.7	U	84.7	U	33.9	U
	26-Apr-07	33.9	U	33.9	U	33.9	U	33.9	U	33.9	U	33.9	U	33.9	U	33.9	U
	21-May-07	61.7	U	33.9	U	33.9	U	59.6	U	33.9	U	33.9	U	3.39	U	33.9	U
	29-Jun-07	0.88		0.78		0.75		2.2		6.7		1.4	U	1.0		0.68	
	30-Jul-07	0.81		NS		NS		2.2		NS		1		3.4	U	NS	
Trichloroethene	15-Mar-07	480	U	460	U	460	U	470	U	460	U	180	U	71	U	200	U
	22-Mar-07	67.1	U	67.1	U	67.1	U	67.1	U	67.1	U	67.1	U	67.1	U	26.8	U
	26-Apr-07	26.8	U	26.8	U	26.8	U	26.8	U	26.8	U	26.8	U	26.8	U	26.8	U
	21-May-07	48.9	U	26.8	U	26.8	U	47.2	U	26.8	U	26.8	U	2.68	U	26.8	U
	29-Jun-07	0.54	U	0.54	U	0.54	U	22		100		1.1	U	0.62		0.54	U
	30-Jul-07	0.54	U	NS		NS		22		NS		0.54	U	2.7	U	NS	
Toluene	15-Mar-07	850	U	810	U	810	U	820	U	800	U	320	U	120	U	350	U
	22-Mar-07	47.1	U	47.1	U	47.1	U	47.1	U	47.1	U	47.1	U	47.1	U	18.8	U
	26-Apr-07	18.8	U	18.8	U	18.8	U	18.8	U	18.8	U	18.8	U	18.8	U	18.8	U
	21-May-07	34.3	U	26.2		18.8	U	57.3		47.4		18.8	U	1.92		18.8	U
	29-Jun-07	26		3.3		3.3		4.3		4.1		3.0		5.3		4.2	
	30-Jul-07	5.3		NS		NS		2.9		NS		4.9		7.9		NS	
Vinyl chloride	15-Mar-07	230	U	220	U	220	U	220	U	220	U	88	U	34	U	96	U
	22-Mar-07	31.9	U	31.9	U	31.9	U	31.9	U	31.9	U	31.9	U	31.9	U	12.8	U
	26-Apr-07	12.8	U	12.8	U	12.8	U	12.8	U	12.8	U	12.8	U	12.8	U	12.8	U
	21-May-07	23.2	U	12.8	U	12.8	U	22.5	U	12.8	U	12.8	U	1.28	U	12.8	U
	29-Jun-07	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U	0.51	U	0.26	U	0.26	U
	30-Jul-07	0.26	U	NS		NS		0.51	U	NS		0.26	U	1.3	U	NS	
Carbon tetrachloride	15-Mar-07	570	U	540	U	540	U	540	U	530	U	220	U	83	U	240	U
	22-Mar-07	78.6	U	78.6	U	78.6	U	78.6	U	78.6	U	78.6	U	78.6	U	31.4	U
	26-Apr-07	31.4	U	31.4	U	31.4	U	31.4	U	31.4	U	31.4	U	31.4	U	31.4	U
	21-May-07	57.2	U	31.4	U	31.4	U	55.3	U	31.4	U	31.4	U	3.14	U	31.4	U
	29-Jun-07	0.63	U	0.63	U	0.63	U	0.63	U	0.63	U	1.3	U	0.63	U	0.63	U
	30-Jul-07	0.63	U	NS		NS		1.3	U	NS		0.63	U	3.1	U	NS	
Chloroform	15-Mar-07	440	U	420	U	420	U	420	U	410	U	170	U	64	U	180	U
	22-Mar-07	61	U	61	U	61	U	61	U	61	U	61	U	61	U	24.4	U
	26-Apr-07	24.4	U	24.4	U	24.4	U	24.4	U	24.4	U	24.4	U	24.4	U	24.4	U
	21-May-07	44.4	U	24.4	U	24.4	U	42.9	U	24.4	U	24.4	U	2.44	U	24.4	U
	29-Jun-07	0.49	U	0.49	U	0.49	U	0.49	U	0.49	U	0.98	U	0.49	U	0.49	U
	30-Jul-07	0.49	U	NS		NS		0.98	U	NS		0.49	U	2.4	U	NS	

Notes:

All VOC compounds detected above the laboratory detection limits or those reported as "Not Detected" with reporting limits that exceed the action levels applicable to indoor air for this project are presented in this table.

All data presented in micrograms per cubic meter (ug/m3).

U: designation indicates that the compound was not detected by the laboratory. Reporting limit shown in the data column.



ANALYTICAL REPORT

Prepared for:

**EA Engineering, Science & Technology
2350 Post Road
Warwick, RI 02886**

Project: Adelaide Ave. School
ETR: 0708007
Report Date: August 15, 2007

Certifications and Accreditations

**Massachusetts M-MA030
Connecticut PH-0141
New Hampshire 2206
Rhode Island LAO00289
New Jersey MA015
Maine MA0030
New York 11627
Louisiana 03090
Florida E87814
Pennsylvania 68-02089
Army Corps of Engineers
Department of the Navy**

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Sample ID Cross Reference



Client: **EA Engineering, Science & Technology**
Project: **Adelaide Ave. School**

Lab Code: **MA00030**
ETR: **0708007**

Lab Sample ID	Client Sample ID
0708007-01	MP-7
0708007-02	MP-4
0708007-03	MP-6
0708007-04	MP-1

CASE NARRATIVE

Alpha Woods Hole Lab

ETR: 0708007

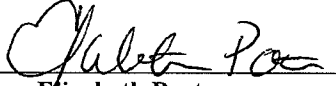
Project: Adelaide Ave. School

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter.

Volatile Organics by TO-15 SIM

1. The specified quality control measures were met. Please note that all samples were analyzed at dilution due to target compounds detected above the calibration range of the instrument. The enclosed re-analyses, which are identified with an "E" suffix on the laboratory identification, were only evaluated for those compounds which were over the calibration range in the initial analysis.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by:  Title: Organics Manager Date: 8/15/07
Elizabeth Porta Organics Manager

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **MP-7**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **0708007-01**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.61	3.0
Chloromethane	12 U	26 U
Vinyl chloride	0.50 U	1.3 U
Chloroethane	0.50 U	1.3 U
Acetone	81	190
Trichlorofluoromethane	0.68	3.8
Acrylonitrile	12 U	27 U
1,1-Dichloroethene	0.50 U	2.0 U
Methylene chloride	20 U	69 U
trans-1,2-Dichloroethene	0.50 U	2.0 U
1,1-Dichloroethane	0.50 U	2.0 U
MTBE	0.50 U	1.8 U
2-Butanone	1100 E	3300 E
cis-1,2-Dichloroethene	0.50 U	2.0 U
Chloroform	0.50 U	2.4 U
1,2-Dichloroethane	0.50 U	2.0 U
1,1,1-Trichloroethane	0.50 U	2.7 U
Benzene	0.50 U	1.6 U
Carbon tetrachloride	0.50 U	3.1 U
1,2-Dichloropropane	0.50 U	2.3 U
Bromodichloromethane	0.50 U	3.4 U
Trichloroethene	0.50 U	2.7 U
cis-1,3-Dichloropropene	0.50 U	2.3 U
4-Methyl-2-pentanone	12 U	51 U
trans-1,3-Dichloropropene	0.50 U	2.3 U
1,1,2-Trichloroethane	0.50 U	2.7 U
Toluene	2.1	7.9
Dibromochloromethane	0.50 U	4.3 U
1,2-Dibromoethane	0.50 U	3.8 U
Tetrachloroethene	0.50 U	3.4 U
1,1,1,2-Tetrachloroethane	0.50 U	3.4 U
Chlorobenzene	0.50 U	2.3 U
Ethylbenzene	0.50 U	2.2 U
p+m-Xylene	1.1	4.9
Bromoform	0.50 U	5.2 U
Styrene	0.50 U	2.1 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-7
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-01
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.50 U	3.4 U
o-Xylene	0.50 U	2.2 U
Isopropylbenzene	12 U	61 U
1,3,5-Trimethylbenzene	0.52	2.5
1,2,4-Trimethylbenzene	0.88	4.4
1,3-Dichlorobenzene	0.50 U	3.0 U
1,4-Dichlorobenzene	1.2	7.0
sec-Butylbenzene	12 U	61 U
p-Isopropyltoluene	12 U	69 U
1,2-Dichlorobenzene	0.50 U	3.0 U
n-Butylbenzene	12 U	69 U

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **MP-7**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **0708007-01E**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	2.4	250	104.17	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	2.1 U	10 U
Chloromethane	52 U	110 U
Vinyl chloride	2.1 U	5.3 U
Chloroethane	2.1 U	5.5 U
Acetone	210 U	490 U
Trichlorofluoromethane	2.1 U	12 U
Acrylonitrile	52 U	110 U
1,1-Dichloroethene	2.1 U	8.2 U
Methylene chloride	83 U	290 U
trans-1,2-Dichloroethene	2.1 U	8.2 U
1,1-Dichloroethane	2.1 U	8.4 U
MTBE	2.1 U	7.5 U
2-Butanone	870	2600
cis-1,2-Dichloroethene	2.1 U	8.2 U
Chloroform	2.1 U	10 U
1,2-Dichloroethane	2.1 U	8.4 U
1,1,1-Trichloroethane	2.1 U	11 U
Benzene	4.2 U	13 U
Carbon tetrachloride	2.1 U	13 U
1,2-Dichloropropane	2.1 U	9.6 U
Bromodichloromethane	2.1 U	14 U
Trichloroethene	2.1 U	11 U
cis-1,3-Dichloropropene	2.1 U	9.4 U
4-Methyl-2-pentanone	52 U	210 U
trans-1,3-Dichloropropene	2.1 U	9.4 U
1,1,2-Trichloroethane	2.1 U	11 U
Toluene	5.2 U	20 U
Dibromochloromethane	2.1 U	18 U
1,2-Dibromoethane	2.1 U	16 U
Tetrachloroethene	2.1 U	14 U
1,1,1,2-Tetrachloroethane	2.1 U	14 U
Chlorobenzene	2.1 U	9.6 U
Ethylbenzene	2.1 U	9.0 U
p+m-Xylene	4.2 U	18 U
Bromoform	2.1 U	22 U
Styrene	2.1 U	8.9 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-7
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-01E
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	2.4	250	104.17	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	2.1 U	14 U
o-Xylene	2.1 U	9.0 U
Isopropylbenzene	52 U	260 U
1,3,5-Trimethylbenzene	2.1 U	10 U
1,2,4-Trimethylbenzene	2.1 U	10 U
1,3-Dichlorobenzene	2.1 U	12 U
1,4-Dichlorobenzene	2.1 U	12 U
sec-Butylbenzene	52 U	260 U
p-Isopropyltoluene	52 U	290 U
1,2-Dichlorobenzene	2.1 U	12 U
n-Butylbenzene	52 U	290 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-4
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-02
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	25	250	10	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.51	2.5
Chloromethane	5.0 U	10 U
Vinyl chloride	0.20 U	0.51 U
Chloroethane	0.20 U	0.53 U
Acetone	4500 E	11000 E
Trichlorofluoromethane	9.3	52
Acrylonitrile	5.0 U	11 U
1,1-Dichloroethene	0.20 U	0.79 U
Methylene chloride	8.0 U	28 U
trans-1,2-Dichloroethene	0.20 U	0.79 U
1,1-Dichloroethane	0.20 U	0.81 U
MTBE	0.20 U	0.72 U
2-Butanone	26000 E	76000 E
cis-1,2-Dichloroethene	0.20 U	0.79 U
Chloroform	0.20 U	0.98 U
1,2-Dichloroethane	0.20 U	0.81 U
1,1,1-Trichloroethane	0.20 U	1.1 U
Benzene	0.26 J	0.83 J
Carbon tetrachloride	0.20 U	1.3 U
1,2-Dichloropropane	0.20 U	0.92 U
Bromodichloromethane	0.20 U	1.3 U
Trichloroethene	4.0	22
cis-1,3-Dichloropropene	0.20 U	0.91 U
4-Methyl-2-pentanone	5.0 U	20 U
trans-1,3-Dichloropropene	0.20 U	0.91 U
1,1,2-Trichloroethane	0.20 U	1.1 U
Toluene	0.78	2.9
Dibromochloromethane	0.20 U	1.7 U
1,2-Dibromoethane	0.20 U	1.5 U
Tetrachloroethene	0.32	2.2
1,1,1,2-Tetrachloroethane	0.20 U	1.4 U
Chlorobenzene	0.20 U	0.92 U
Ethylbenzene	0.20 U	0.87 U
p+m-Xylene	0.40 U	1.7 U
Bromoform	0.20 U	2.1 U
Styrene	0.20 U	0.85 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-4
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-02
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	25	250	10	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.20 U	1.4 U
o-Xylene	0.20 U	0.87 U
Isopropylbenzene	5.0 U	25 U
1,3,5-Trimethylbenzene	0.20 U	0.98 U
1,2,4-Trimethylbenzene	0.35	1.7
1,3-Dichlorobenzene	0.20 U	1.2 U
1,4-Dichlorobenzene	0.34	2.0
sec-Butylbenzene	5.0 U	25 U
p-Isopropyltoluene	5.0 U	27 U
1,2-Dichlorobenzene	0.20 U	1.2 U
n-Butylbenzene	5.0 U	27 U

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

J - Estimated value, below quantitation limit.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **MP-4**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **0708007-02E**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	0.16	250	1562.5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	31 U	150 U
Chloromethane	780 U	1600 U
Vinyl chloride	31 U	80 U
Chloroethane	31 U	82 U
Acetone	5800	14000
Trichlorofluoromethane	31 U	180 U
Acrylonitrile	780 U	1700 U
1,1-Dichloroethene	31 U	120 U
Methylene chloride	1200 U	4300 U
trans-1,2-Dichloroethene	31 U	120 U
1,1-Dichloroethane	31 U	130 U
MTBE	31 U	110 U
2-Butanone	62000	180000
cis-1,2-Dichloroethene	31 U	120 U
Chloroform	31 U	150 U
1,2-Dichloroethane	31 U	130 U
1,1,1-Trichloroethane	31 U	170 U
Benzene	62 U	200 U
Carbon tetrachloride	31 U	200 U
1,2-Dichloropropane	31 U	140 U
Bromodichloromethane	31 U	210 U
Trichloroethene	31 U	170 U
cis-1,3-Dichloropropene	31 U	140 U
4-Methyl-2-pentanone	780 U	3200 U
trans-1,3-Dichloropropene	31 U	140 U
1,1,2-Trichloroethane	31 U	170 U
Toluene	78 U	290 U
Dibromochloromethane	31 U	270 U
1,2-Dibromoethane	31 U	240 U
Tetrachloroethene	31 U	210 U
1,1,1,2-Tetrachloroethane	31 U	210 U
Chlorobenzene	31 U	140 U
Ethylbenzene	31 U	140 U
p+m-Xylene	62 U	270 U
Bromoform	31 U	320 U
Styrene	31 U	130 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-4
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-02E
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	0.16	250	1562.5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	31 U	210 U
o-Xylene	31 U	140 U
Isopropylbenzene	780 U	3800 U
1,3,5-Trimethylbenzene	31 U	150 U
1,2,4-Trimethylbenzene	31 U	150 U
1,3-Dichlorobenzene	31 U	190 U
1,4-Dichlorobenzene	31 U	190 U
sec-Butylbenzene	780 U	3800 U
p-Isopropyltoluene	780 U	4300 U
1,2-Dichlorobenzene	31 U	190 U
n-Butylbenzene	780 U	4300 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-6
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-03
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.46	2.2
Chloromethane	2.5 U	5.2 U
Vinyl chloride	0.10 U	0.26 U
Chloroethane	0.10 U	0.26 U
Acetone	1100 E	2700 E
Trichlorofluoromethane	0.30	1.7
Acrylonitrile	2.5 U	5.4 U
1,1-Dichloroethene	0.10 U	0.40 U
Methylene chloride	4.0 U	14 U
trans-1,2-Dichloroethene	0.10 U	0.40 U
1,1-Dichloroethane	0.10 U	0.40 U
MTBE	0.10 U	0.36 U
2-Butanone	3800 E	11000 E
cis-1,2-Dichloroethene	0.10 U	0.40 U
Chloroform	0.10 U	0.49 U
1,2-Dichloroethane	0.10 U	0.40 U
1,1,1-Trichloroethane	0.10 U	0.55 U
Benzene	0.23	0.75
Carbon tetrachloride	0.10 U	0.63 U
1,2-Dichloropropane	0.10 U	0.46 U
Bromodichloromethane	0.10 U	0.67 U
Trichloroethene	0.10 U	0.54 U
cis-1,3-Dichloropropene	0.10 U	0.45 U
4-Methyl-2-pentanone	2.5 U	10 U
trans-1,3-Dichloropropene	0.10 U	0.45 U
1,1,2-Trichloroethane	0.10 U	0.55 U
Toluene	1.3	4.9
Dibromochloromethane	0.10 U	0.85 U
1,2-Dibromoethane	0.10 U	0.77 U
Tetrachloroethene	0.15	1.0
1,1,1,2-Tetrachloroethane	0.10 U	0.69 U
Chlorobenzene	0.10 U	0.46 U
Ethylbenzene	0.23	1.0
p+m-Xylene	0.64	2.8
Bromoform	0.10 U	1.0 U
Styrene	0.11	0.47

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-6
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-03
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.10 U	0.69 U
o-Xylene	0.23	1.0
Isopropylbenzene	2.5 U	12 U
1,3,5-Trimethylbenzene	0.18	0.88
1,2,4-Trimethylbenzene	0.32	1.6
1,3-Dichlorobenzene	0.10 U	0.60 U
1,4-Dichlorobenzene	0.51	3.1
sec-Butylbenzene	2.5 U	12 U
p-Isopropyltoluene	2.5 U	14 U
1,2-Dichlorobenzene	0.10 U	0.60 U
n-Butylbenzene	2.5 U	14 U

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-6
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-03E
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	1.25	250	200	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	4.0 U	20 U
Chloromethane	100 U	210 U
Vinyl chloride	4.0 U	10 U
Chloroethane	4.0 U	11 U
Acetone	1300	3100
Trichlorofluoromethane	4.0 U	22 U
Acrylonitrile	100 U	220 U
1,1-Dichloroethene	4.0 U	16 U
Methylene chloride	160 U	560 U
trans-1,2-Dichloroethene	4.0 U	16 U
1,1-Dichloroethane	4.0 U	16 U
MTBE	4.0 U	14 U
2-Butanone	4400	13000
cis-1,2-Dichloroethene	4.0 U	16 U
Chloroform	4.0 U	20 U
1,2-Dichloroethane	4.0 U	16 U
1,1,1-Trichloroethane	4.0 U	22 U
Benzene	8.0 U	26 U
Carbon tetrachloride	4.0 U	25 U
1,2-Dichloropropane	4.0 U	18 U
Bromodichloromethane	4.0 U	27 U
Trichloroethene	4.0 U	22 U
cis-1,3-Dichloropropene	4.0 U	18 U
4-Methyl-2-pentanone	100 U	410 U
trans-1,3-Dichloropropene	4.0 U	18 U
1,1,2-Trichloroethane	4.0 U	22 U
Toluene	10 U	38 U
Dibromochloromethane	4.0 U	34 U
1,2-Dibromoethane	4.0 U	31 U
Tetrachloroethene	4.0 U	27 U
1,1,1,2-Tetrachloroethane	4.0 U	27 U
Chlorobenzene	4.0 U	18 U
Ethylbenzene	4.0 U	17 U
p+m-Xylene	8.0 U	35 U
Bromoform	4.0 U	41 U
Styrene	4.0 U	17 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-6
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-03E
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	1.25	250	200	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	4.0 U	27 U
o-Xylene	4.0 U	17 U
Isopropylbenzene	100 U	490 U
1,3,5-Trimethylbenzene	4.0 U	20 U
1,2,4-Trimethylbenzene	4.0 U	20 U
1,3-Dichlorobenzene	4.0 U	24 U
1,4-Dichlorobenzene	4.0 U	24 U
sec-Butylbenzene	100 U	490 U
p-Isopropyltoluene	100 U	550 U
1,2-Dichlorobenzene	4.0 U	24 U
n-Butylbenzene	100 U	550 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **MP-1**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **0708007-04**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.48	2.4
Chloromethane	2.5 U	5.2 U
Vinyl chloride	0.10 U	0.26 U
Chloroethane	0.10 U	0.26 U
Acetone	170 E	410 E
Trichlorofluoromethane	0.31	1.7
Acrylonitrile	2.5 U	5.4 U
1,1-Dichloroethene	0.10 U	0.40 U
Methylene chloride	4.0 U	14 U
trans-1,2-Dichloroethene	0.10 U	0.40 U
1,1-Dichloroethane	0.10 U	0.40 U
MTBE	0.10 U	0.36 U
2-Butanone	2000 E	5800 E
cis-1,2-Dichloroethene	0.10 U	0.40 U
Chloroform	0.10 U	0.49 U
1,2-Dichloroethane	0.10 U	0.40 U
1,1,1-Trichloroethane	0.10 U	0.55 U
Benzene	0.21	0.67
Carbon tetrachloride	0.10 U	0.63 U
1,2-Dichloropropane	0.10 U	0.46 U
Bromodichloromethane	0.10 U	0.67 U
Trichloroethene	0.10 U	0.54 U
cis-1,3-Dichloropropene	0.10 U	0.45 U
4-Methyl-2-pentanone	2.5 U	10 U
trans-1,3-Dichloropropene	0.10 U	0.45 U
1,1,2-Trichloroethane	0.10 U	0.55 U
Toluene	1.4	5.3
Dibromochloromethane	0.10 U	0.85 U
1,2-Dibromoethane	0.10 U	0.77 U
Tetrachloroethene	0.12	0.81
1,1,1,2-Tetrachloroethane	0.10 U	0.69 U
Chlorobenzene	0.10 U	0.46 U
Ethylbenzene	0.20	0.87
p+m-Xylene	0.54	2.3
Bromoform	0.10 U	1.0 U
Styrene	0.11	0.47

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-1
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-04
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	50	250	5	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.10 U	0.69 U
o-Xylene	0.18	0.80
Isopropylbenzene	2.5 U	12 U
1,3,5-Trimethylbenzene	0.15	0.74
1,2,4-Trimethylbenzene	0.31	1.5
1,3-Dichlorobenzene	0.10 U	0.60 U
1,4-Dichlorobenzene	0.62	3.8
sec-Butylbenzene	2.5 U	12 U
p-Isopropyltoluene	2.5 U	14 U
1,2-Dichlorobenzene	0.10 U	0.60 U
n-Butylbenzene	2.5 U	14 U

N/A - Not Applicable
 E - Estimated value, exceeds the upper limit of calibration.
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **MP-1**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **0708007-04E**
 Associated Blank: **VA081307B14**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	1.56	250	160	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	3.2 U	16 U
Chloromethane	80 U	160 U
Vinyl chloride	3.2 U	8.2 U
Chloroethane	3.2 U	8.4 U
Acetone	160	390
Trichlorofluoromethane	3.2 U	18 U
Acrylonitrile	80 U	170 U
1,1-Dichloroethene	3.2 U	13 U
Methylene chloride	130 U	440 U
trans-1,2-Dichloroethene	3.2 U	13 U
1,1-Dichloroethane	3.2 U	13 U
MTBE	3.2 U	12 U
2-Butanone	1700	4900
cis-1,2-Dichloroethene	3.2 U	13 U
Chloroform	3.2 U	16 U
1,2-Dichloroethane	3.2 U	13 U
1,1,1-Trichloroethane	3.2 U	18 U
Benzene	6.4 U	20 U
Carbon tetrachloride	3.2 U	20 U
1,2-Dichloropropane	3.2 U	15 U
Bromodichloromethane	3.2 U	21 U
Trichloroethene	3.2 U	17 U
cis-1,3-Dichloropropene	3.2 U	14 U
4-Methyl-2-pentanone	80 U	330 U
trans-1,3-Dichloropropene	3.2 U	14 U
1,1,2-Trichloroethane	3.2 U	18 U
Toluene	8.0 U	30 U
Dibromochloromethane	3.2 U	27 U
1,2-Dibromoethane	3.2 U	25 U
Tetrachloroethene	3.2 U	22 U
1,1,1,2-Tetrachloroethane	3.2 U	22 U
Chlorobenzene	3.2 U	15 U
Ethylbenzene	3.2 U	14 U
p+m-Xylene	6.4 U	28 U
Bromoform	3.2 U	33 U
Styrene	3.2 U	14 U

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: MP-1
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: 0708007-04E
Associated Blank: VA081307B14

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
07/30/07	07/31/07	08/10/07	1.56	250	160	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	3.2 U	22 U
o-Xylene	3.2 U	14 U
Isopropylbenzene	80 U	390 U
1,3,5-Trimethylbenzene	3.2 U	16 U
1,2,4-Trimethylbenzene	3.2 U	16 U
1,3-Dichlorobenzene	3.2 U	19 U
1,4-Dichlorobenzene	3.2 U	19 U
sec-Butylbenzene	80 U	390 U
p-Isopropyltoluene	80 U	440 U
1,2-Dichlorobenzene	3.2 U	19 U
n-Butylbenzene	80 U	440 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **VA081307B14**
 Associated Blank: **N/A**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
Dichlorodifluoromethane	0.02 U	0.10 U
Chloromethane	0.50 U	1.0 U
Vinyl chloride	0.02 U	0.05 U
Chloroethane	0.02 U	0.05 U
Acetone	2.0 U	4.8 U
Trichlorofluoromethane	0.02 U	0.11 U
Acrylonitrile	0.50 U	1.1 U
1,1-Dichloroethene	0.02 U	0.08 U
Methylene chloride	0.80 U	2.8 U
trans-1,2-Dichloroethene	0.02 U	0.08 U
1,1-Dichloroethane	0.02 U	0.08 U
MTBE	0.02 U	0.07 U
2-Butanone	0.50 U	1.5 U
cis-1,2-Dichloroethene	0.02 U	0.08 U
Chloroform	0.02 U	0.10 U
1,2-Dichloroethane	0.02 U	0.08 U
1,1,1-Trichloroethane	0.02 U	0.11 U
Benzene	0.04 U	0.13 U
Carbon tetrachloride	0.02 U	0.13 U
1,2-Dichloropropane	0.02 U	0.09 U
Bromodichloromethane	0.02 U	0.13 U
Trichloroethene	0.02 U	0.11 U
cis-1,3-Dichloropropene	0.02 U	0.09 U
4-Methyl-2-pentanone	0.50 U	2.0 U
trans-1,3-Dichloropropene	0.02 U	0.09 U
1,1,2-Trichloroethane	0.02 U	0.11 U
Toluene	0.05 U	0.19 U
Dibromochloromethane	0.02 U	0.17 U
1,2-Dibromoethane	0.02 U	0.15 U
Tetrachloroethene	0.02 U	0.14 U
1,1,1,2-Tetrachloroethane	0.02 U	0.14 U
Chlorobenzene	0.02 U	0.09 U
Ethylbenzene	0.02 U	0.09 U
p+m-Xylene	0.04 U	0.17 U
Bromoform	0.02 U	0.21 U
Styrene	0.02 U	0.09 U

Blank Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Blank
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: VA081307B14
Associated Blank: N/A

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

Parameter	Raw Amount ppbv	Result µg/m ³
1,1,2,2-Tetrachloroethane	0.02 U	0.14 U
o-Xylene	0.02 U	0.09 U
Isopropylbenzene	0.50 U	2.5 U
1,3,5-Trimethylbenzene	0.02 U	0.10 U
1,2,4-Trimethylbenzene	0.02 U	0.10 U
1,3-Dichlorobenzene	0.02 U	0.12 U
1,4-Dichlorobenzene	0.02 U	0.12 U
sec-Butylbenzene	0.50 U	2.5 U
p-Isopropyltoluene	0.50 U	2.7 U
1,2-Dichlorobenzene	0.02 U	0.12 U
n-Butylbenzene	0.50 U	2.7 U

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary

Volatile Organics by TO-15



Client: **EA Engineering, Science & Technology**
 Project: **Adelaide Ave. School**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Soil Vapor**

Lab Code: **MA00030**
 ETR: **0708007**
 Lab ID: **See Below**
 Associated Blank: **VA081307B14**
 Concentration Units: **µg/m³**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

VA081307B14

VA081307LCS04

Parameter	Blank		LCS		% Recovery Limits
	Conc.	U	Conc.	% Recovery	
Dichlorodifluoromethane	0.10	U	22	90	70-130
Chloromethane	1.0	U	8.3	80	70-130
Vinyl chloride	0.05	U	10	81	70-130
Chloroethane	0.05	U	11	82	70-130
Acetone	4.8	U	9.2	77	70-130
Trichlorofluoromethane	0.11	U	23	81	70-130
Acrylonitrile	1.1	U	10	92	70-130
1,1-Dichloroethene	0.08	U	15	77	70-130
Methylene chloride	2.8	U	13	73	70-130
trans-1,2-Dichloroethene	0.08	U	15	74	70-130
1,1-Dichloroethane	0.08	U	16	80	70-130
MTBE	0.07	U	14	77	70-130
2-Butanone	1.5	U	12	85	70-130
cis-1,2-Dichloroethene	0.08	U	16	82	70-130
Chloroform	0.10	U	21	85	70-130
1,2-Dichloroethane	0.08	U	17	82	70-130
1,1,1-Trichloroethane	0.11	U	25	91	70-130
Benzene	0.13	U	12	76	70-130
Carbon tetrachloride	0.13	U	27	85	70-130
1,2-Dichloropropane	0.09	U	20	85	70-130
Bromodichloromethane	0.13	U	28	84	70-130
Trichloroethene	0.11	U	21	79	70-130
cis-1,3-Dichloropropene	0.09	U	21	93	70-130
4-Methyl-2-pentanone	2.0	U	16	77	70-130
trans-1,3-Dichloropropene	0.09	U	19	84	70-130
1,1,2-Trichloroethane	0.11	U	23	86	70-130
Toluene	0.19	U	14	77	70-130
Dibromochloromethane	0.17	U	36	86	70-130
1,2-Dibromoethane	0.15	U	32	83	70-130
Tetrachloroethene	0.14	U	26	76	70-130
1,1,1,2-Tetrachloroethane	0.14	U	30	86	70-130
Chlorobenzene	0.09	U	18	80	70-130
Ethylbenzene	0.09	U	18	84	70-130

Laboratory Control Summary

Volatile Organics by TO-15



Client: EA Engineering, Science & Technology
Project: Adelaide Ave. School
Client ID: Laboratory Control Sample
Case: N/A **SDG:** N/A
Matrix: Soil Vapor

Lab Code: MA00030
ETR: 0708007
Lab ID: See Below
Associated Blank: VA081307B14
Concentration Units: µg/m³

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	08/10/07	250	250	1	APR

VA081307B14

VA081307LCS04

Parameter	Blank		LCS		% Recovery Limits
	Conc.		Conc.	% Recovery	
p+m-Xylene	0.17	U	37	85	70-130
Bromoform	0.21	U	47	92	70-130
Styrene	0.09	U	18	82	70-130
1,1,2,2-Tetrachloroethane	0.14	U	28	81	70-130
o-Xylene	0.09	U	18	85	70-130
Isopropylbenzene	2.5	U	22	90	70-130
1,3,5-Trimethylbenzene	0.10	U	22	91	70-130
1,2,4-Trimethylbenzene	0.10	U	24	98	70-130
1,3-Dichlorobenzene	0.12	U	26	87	70-130
1,4-Dichlorobenzene	0.12	U	26	85	70-130
sec-Butylbenzene	2.5	U	23	95	70-130
p-Isopropyltoluene	2.7	U	24	88	70-130
1,2-Dichlorobenzene	0.12	U	25	84	70-130
n-Butylbenzene	2.7	U	22	79	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

08/15/07 09:56

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information
Client: EA Engineering
Address: 2350 Post Rd
Warwick, RI 02886
Phone: 736-3448
Fax: 737-3243
Email: pgrivers@east.com

Project Information
Project Name: Adelaide Ave School
Project Location: Providence, RI
Project #: 6196501.1005
Project Manager: Peter Grivers
ALPHA Quote #:
Turn-Around Time

Standard
TO-13: 10 DAYS
 RUSH (only confirmed if pre-approved)
Date Due:
Time:
These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments:

Regulatory Requirements/Report Limits
State/Fed Program Criteria
CT Draft Proposed Residential
Target Air Compounds

Report Information - Data Deliverables
 FAX
 ADEX
Criteria Checker: Client/Proj. Specific
(Default based on Regulatory Criteria Indicated)
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information
ALPHA Job #: 0708007
Same as Client info PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
		Date	Start Time					
-1	MP-7	7-30-07	12:25	12:58	PMG	454	0074	PID = 3 PPM
-2	MP-4		12:50	13:22		419	0271	PID = 88 PPM
-3	MP-6		13:15	13:45		526	0252	PID = 1.8 PPM
-4	MP-1		13:35	14:00		510	0030	PID = 0.44 PPM

TO-14A	TO-15	TO-15 SIM	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	TO-4/TO-10 DISS GASES CO2 ONLY

Shaded Gray Areas For Lab Use Only				Container Type	Date/Time
				CS	7/31/07 13:05
					7/31/07 1505

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

Relinquished By: *[Signature]*
Received By: Paul Dillert
Date/Time: 7/31/07 13:05

Date/Time: 7/31/07 1505

Sample Receipt Checklist

Client: <u>EABNG</u>	Receipt Date: <u>7/31/07</u>
Project: <u>ADELAIDE Ave School</u>	Log-in Date: <u>8/1/07</u>
ETR #: <u>0708007</u>	Inspection by: <u>ur</u> Login by: <u>ur</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ No, WHG Courier pick-up / Hand delivered	Sample storage refrigerator #: <u>AIR</u>
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	Sample storage freezer #: _____
Number of coolers received for this project delivery: <u>0</u>	Cooler 2: _____ Cooler 3: _____
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note <u>all</u> samples received <u>above</u> 6°C.: Cooler 1: Temperature(s) taken from: _____ IR Gun, _____ Temp. Blank, / <u>NA</u>	Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Were samples received on ice? Yes / No <u>0</u>	
Chain-of-Custody present? <u>Yes</u> / No Complete? <u>Yes</u> / No	
Custody seals present on Cooler? Yes / <u>No</u> on Bottles? Yes / <u>No</u> Intact? Yes / No / <u>NA</u>	
<i>Note: Affix custody seals to back of this page.</i>	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <u>NA</u> If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <u>Yes</u> / No If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? Yes / No / <u>NA</u> <input type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H ₂ SO ₄ <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO ₃ <input type="checkbox"/> Other: _____ <input type="checkbox"/> U= Unknown	Chemical preservation OK for ALL samples? Yes / No / <u>N/A</u>
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO <u>NA</u> If No, why?:	If No, list samples below:
Were samples received within hold time? <u>Yes</u> / No If No, list samples: →	
Discrepancy between samples rec'd & COC? Yes / <u>No</u> If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes / No / <u>NA</u>	
Project Manager Acknowledgement: <u>EMW</u> Date: <u>8/1/07</u>	Please use back for any additional notes!

Certificate/Approval Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2; Metals: 200.8, 245.1; Organics: 608, 624, 625, ETPH) *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastewater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, 365.2, SM2320B, SM2340B, SM2540G, SM4500NH₃; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Louisiana Department of Environmental Quality Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608, 624, 625, 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2, 365.2; Metals: EPA 245.1; Organics: EPA 608, 624).

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608, 624, 625, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO/GRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

New York Department of Health Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 365.2, 376.2; Metals: 245.1; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; Metals: 245.1; 6020, 7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Rhode Island Department of Health Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-02089 - Registered laboratory

U.S. Army Corps of Engineers

Department of the Navy