



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

18 May 2009

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

RE: April 2009 Air Sampling Event Comment Letter
Alvarez High School, 333 Adelaide Avenue, Providence, Rhode Island
Case No. 2005-029
EA Project No. 14613.01

Dear Mr. Martella:

On behalf of the City of Providence Department of Public Schools, EA Engineering, Science, and Technology, Inc. (EA) is providing this summary of data collected at the referenced Alvarez High School site (the Site) on 29 April 2009.

In accordance with the Order of Approval and amendments (Amended OA) for this Site, your office was notified via telephone that one compound, 1,2-Dichloroethane, was detected within a sample collected from Room 118 (Figure 1) at a concentration that exceeds the State of Connecticut's Draft Proposed Indoor Residential Targeted Air Concentrations ($0.089 \mu\text{g}/\text{m}^3$ vs. criteria of $0.082 \mu\text{g}/\text{m}^3$).

Upon receipt of this detection, EA reviewed monitoring field notes and analytical results of subslab vapor sampling, which was conducted concurrently with the indoor air sampling. Analytical results indicate that 1,2-Dichloroethane was detected in two samples collected from subslab vapor sampling points, MP-3 and IMP-3 (Figure 2) at concentrations of 0.319 and $0.089 \mu\text{g}/\text{m}^3$, respectively.

1,2-Dichloroethane has historically been used in degreasing, paint removal, and carpet cleaning products. Room 118, which is the music classroom, is the only room with carpeting. Therefore, a carpet cleaning product may be the source of the detection, as well as a graffiti removal product. The compound is also used as a precursor in the production of PVC, which is the material the subslab sampling points are made from. This may also be a cause for the subslab detections. EA will conduct supplementary sampling this month during regular monthly sampling, unless the proposed quarterly sampling schedule is approved. If quarterly sampling is approved, EA will perform supplementary sampling as soon as possible. Monthly sampling is tentatively scheduled for 27 May 2009.

To summarize, 1,2-Dichloroethane was detected within Room 118 during April 2009 indoor air sampling conducted at the Alvarez High School. EA will perform monthly sampling on 27 May 2009 and will review the results and determine if the presence of this compound persists. However, according to our monitoring data, the SSD System continues to operate effectively in



accordance with design. Copies of the Analytical Reports for Indoor Air and Subslab Vapor sampling for April 2009 are provided in Attachments A and B, respectively.

No SSD system modifications or other actions to address current site conditions are warranted or proposed at this time. Your office will be notified if it is determined that this issue persists or if any other issues arise. If you have any questions or require additional information, please contact me at 401-736-3440, Ext. 202.

Sincerely,

EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

Mark K. Speer, P.E.
Senior Engineer

MKS/rgm

Figures

- Figure 1: Indoor Air Sampling and Methane Monitoring Plan
Figure 2: As-Built Subslab Monitoring and Sampling Locations Plan

Attachments

- Attachment A: Indoor Air Analytical Report, 29 April 2009
Attachment B: Subslab Vapor Analytical Report, 29 April 2009

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

Figure 1

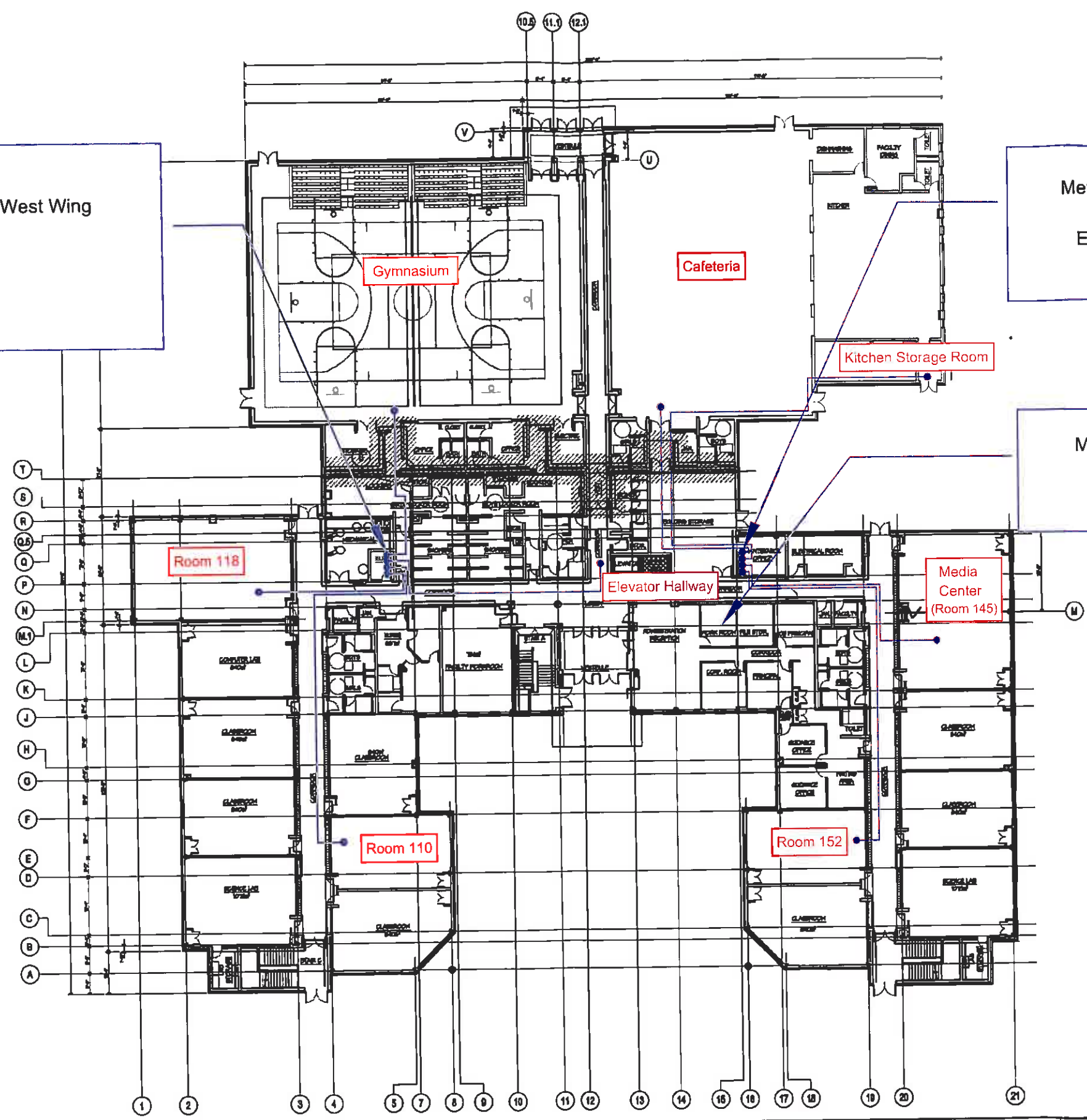
Indoor Air Sampling and
Methane Monitoring Plan

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

QUARTERLY STATUS REPORT
APPENDIX B

Figure 2

As-Built Subslab Monitoring and
Sampling Locations Plan

LEGEND:

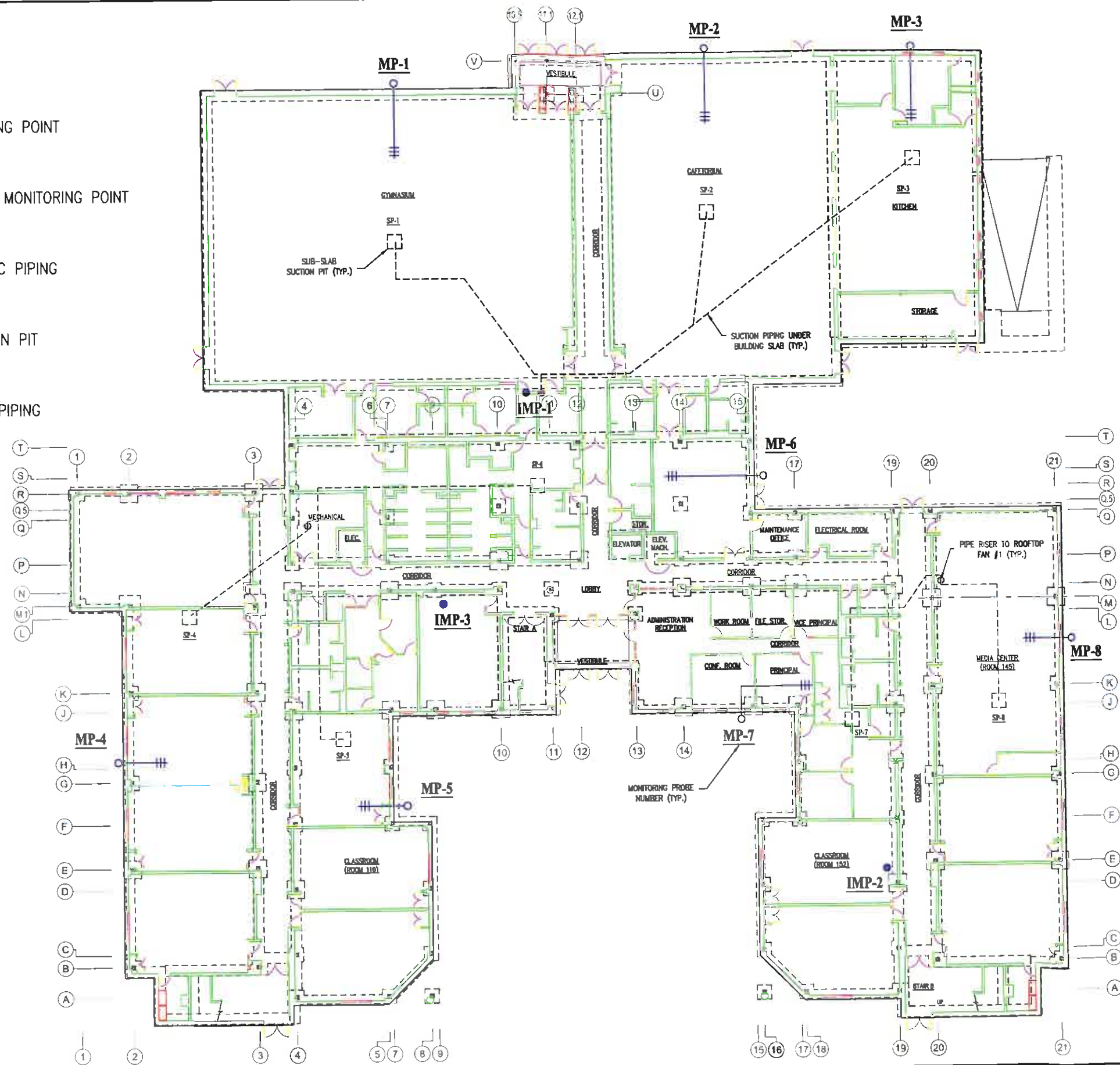
MP-1 SUB-SLAB MONITORING POINT

IMP-1 INTERIOR SUB-SLAB MONITORING POINT

—||— SLOTTED 1 INCH PVC PIPING

□ SSD SYSTEM SUCTION PIT

--- SOLID 4 INCH PVC PIPING



DESIGNED BY PMG	DRAWN BY DMA	DATE AUG 27 2007	PROJECT NO. 61965.01	FILE NAME AS-BUILT08-07
CHECKED BY PMG	PROJECT MGR. PMG	SCALE NTS	DRAWING NO. 2 OF 3	FIGURE N/A

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

QUARTERLY STATUS REPORT
APPENDIX C

Attachment A

Indoor Air Analytical Report
29 April 2009



ANALYTICAL REPORT

Lab Number: L0905469

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

ATTN: Mark Speer

Project Name: ALVEREZ HS

Project Number: 14613.01

Report Date: 05/07/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0905469-01	GYMNASIUM	PROVIDENCE, RI	04/29/09 07:43
L0905469-02	CAFETERIA	PROVIDENCE, RI	04/29/09 07:58
L0905469-03	KITCHEN STORAGE	PROVIDENCE, RI	04/29/09 08:00
L0905469-04	ELEVATOR HALLWAY	PROVIDENCE, RI	04/29/09 07:55
L0905469-05	RM 145	PROVIDENCE, RI	04/29/09 07:45
L0905469-06	RM 152	PROVIDENCE, RI	04/29/09 07:46
L0905469-07	RM 118	PROVIDENCE, RI	04/29/09 07:50
L0905469-08	RM 110	PROVIDENCE, RI	04/29/09 07:50
L0905469-09	AMBIENT OUTDOOR	PROVIDENCE, RI	04/29/09 09:22

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Case Narrative

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

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

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

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

Volatile Organics in Air by SIM

The WG361122-2 LCS recovery associated with L0905469-01 through -07, and -09, is below the acceptance criteria of 70-130% for trans-1,3-Dichloropropene (67%). The LCS was within overall method allowances, therefore the analysis proceeded.

The WG361122-6 LCS recovery associated with L0905469 -08 is above the acceptance criteria of 70-130% for Carbon tetrachloride (142%). The LCS was within overall method allowances, therefore the analysis proceeded.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 05/07/09

AIR



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 17:35
 Analyst: BS

Date Collected: 04/29/09 07:43
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.274	0.020	1.34	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.138	0.020	0.678	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.030	0.020	0.180	0.120		1
Benzene	0.104	0.070	0.332	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.095	0.020	0.597	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	0.737	0.500	3.60	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-01
 Client ID: GYMNASIUM
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:43
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.497	0.050	2.46	0.247		1
Ethylbenzene	0.146	0.020	0.633	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.541	0.040	2.35	0.174		1
o-Xylene	0.123	0.020	0.534	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.185	0.020	0.697	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.238	0.050	1.34	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.05	2.00	7.23	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 18:08
 Analyst: BS

Date Collected: 04/29/09 07:58
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.075	0.020	0.368	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.039	0.020	0.192	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.024	0.020	0.144	0.120		1
Benzene	0.112	0.070	0.358	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.083	0.020	0.522	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.025	0.020	0.122	0.098		1
Chloromethane	0.597	0.500	2.91	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-02
 Client ID: CAFETERIA
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:58
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.458	0.050	2.26	0.247		1
Ethylbenzene	0.054	0.020	0.234	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.169	0.040	0.733	0.174		1
o-Xylene	0.043	0.020	0.186	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.158	0.020	0.595	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.208	0.050	1.17	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.40	2.00	5.70	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-03
Client ID: KITCHEN STORAGE
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/04/09 18:43
Analyst: BS

Date Collected: 04/29/09 08:00
Date Received: 04/30/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.022	0.020	0.120	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.031	0.020	0.152	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.041	0.020	0.246	0.120		1
Benzene	0.186	0.070	0.594	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.085	0.020	0.534	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.039	0.020	0.190	0.098		1
Chloromethane	0.556	0.500	2.71	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-03
 Client ID: KITCHEN STORAGE
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 08:00
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.507	0.050	2.50	0.247		1
Ethylbenzene	0.045	0.020	0.195	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.105	0.040	0.456	0.174		1
o-Xylene	0.033	0.020	0.143	0.087		1
Styrene	0.121	0.020	0.515	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.207	0.020	0.779	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.265	0.050	1.49	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-04
Client ID: ELEVATOR HALLWAY
Sample Location: PROVIDENCE, RI
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 05/04/09 19:51
Analyst: BS

Date Collected: 04/29/09 07:55
Date Received: 04/30/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.244	0.020	1.20	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.128	0.020	0.629	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.029	0.020	0.174	0.120		1
Benzene	0.104	0.070	0.332	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.085	0.020	0.534	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.021	0.020	0.102	0.098		1
Chloromethane	0.764	0.500	3.73	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-04
 Client ID: ELEVATOR HALLWAY
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:55
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.469	0.050	2.32	0.247		1
Ethylbenzene	0.124	0.020	0.538	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.450	0.040	1.95	0.174		1
o-Xylene	0.102	0.020	0.442	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.187	0.020	0.704	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.226	0.050	1.27	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.47	2.00	8.24	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-05
 Client ID: RM 145
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 20:26
 Analyst: BS

Date Collected: 04/29/09 07:45
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.042	0.020	0.229	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.022	0.020	0.108	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.034	0.020	0.204	0.120		1
Benzene	0.099	0.070	0.316	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.090	0.020	0.566	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	0.567	0.500	2.77	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-05
 Client ID: RM 145
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:45
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.482	0.050	2.38	0.247		1
Ethylbenzene	0.032	0.020	0.139	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.072	0.040	0.312	0.174		1
o-Xylene	0.024	0.020	0.104	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.163	0.020	0.614	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.226	0.050	1.27	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.19	2.00	7.57	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-06
 Client ID: RM 152
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 20:59
 Analyst: BS

Date Collected: 04/29/09 07:46
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.032	0.020	0.174	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.020	0.020	0.098	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.020	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.028	0.020	0.168	0.120		1
Benzene	0.105	0.070	0.335	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.089	0.020	0.559	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	0.607	0.500	2.96	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-06
 Client ID: RM 152
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:46
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.478	0.050	2.36	0.247		1
Ethylbenzene	0.035	0.020	0.152	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.080	0.040	0.347	0.174		1
o-Xylene	0.025	0.020	0.108	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.162	0.020	0.610	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.230	0.050	1.29	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	4.05	2.00	9.61	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-07
 Client ID: RM 118
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 21:33
 Analyst: BS

Date Collected: 04/29/09 07:50
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.039	0.020	0.192	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.022	0.020	0.089	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.020	0.020	0.098	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.035	0.020	0.210	0.120		1
Benzene	0.095	0.070	0.303	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.084	0.020	0.528	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.021	0.020	0.102	0.098		1
Chloromethane	0.641	0.500	3.13	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-07
 Client ID: RM 118
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:50
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.457	0.050	2.26	0.247		1
Ethylbenzene	0.045	0.020	0.195	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.110	0.040	0.477	0.174		1
o-Xylene	0.038	0.020	0.165	0.087		1
Styrene	0.032	0.020	0.136	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.278	0.020	1.05	0.075		1
Trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
Trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.211	0.050	1.18	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	8.08	2.00	19.2	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-08
 Client ID: RM 110
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/06/09 22:29
 Analyst: BS

Date Collected: 04/29/09 07:50
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.028	0.020	0.153	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.028	0.020	0.168	0.120		1
Benzene	0.112	0.070	0.358	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.099	0.020	0.622	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	0.546	0.500	2.66	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-08
 Client ID: RM 110
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 07:50
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Dilution Factor
	Results	RDL	Results	RDL	
Volatile Organics in Air by SIM - Mansfield Lab					
Dichlorodifluoromethane	0.469	0.050	2.32	0.247	1
Ethylbenzene	0.032	0.020	0.139	0.087	1
Methylene chloride	ND	0.500	ND	1.74	1
Methyl tert butyl ether	ND	0.020	ND	0.072	1
p/m-Xylene	0.071	0.040	0.308	0.174	1
o-Xylene	0.023	0.020	0.10	0.087	1
Styrene	ND	0.020	ND	0.085	1
Tetrachloroethene	ND	0.020	ND	0.136	1
Toluene	0.158	0.020	0.595	0.075	1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079	1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091	1
Trichloroethene	ND	0.020	ND	0.107	1
Trichlorofluoromethane	0.212	0.050	1.19	0.281	1
Vinyl chloride	ND	0.020	ND	0.051	1
Acrylonitrile	ND	0.500	ND	1.08	1
n-Butylbenzene	ND	0.500	ND	2.74	1
sec-Butylbenzene	ND	0.500	ND	2.74	1
Isopropylbenzene	ND	0.500	ND	2.46	1
p-Isopropyltoluene	ND	0.500	ND	2.74	1
Acetone	3.97	2.00	9.42	4.75	1
2-Butanone	ND	0.500	ND	1.47	1
4-Methyl-2-pentanone	ND	0.500	ND	2.05	1

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-09
Client ID: AMBIENT OUTDOOR
Sample Location: PROVIDENCE, RI
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 05/04/09 22:10
Analyst: BS

Date Collected: 04/29/09 09:22
Date Received: 04/30/09
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.050	0.020	0.272	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.029	0.020	0.142	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.061	0.020	0.366	0.120		1
Benzene	0.110	0.070	0.351	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.082	0.020	0.515	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	0.515	0.500	2.51	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905469-09
 Client ID: AMBIENT OUTDOOR
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 09:22
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.437	0.050	2.16	0.247		1
Ethylbenzene	0.041	0.020	0.178	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.102	0.040	0.442	0.174		1
o-Xylene	0.036	0.020	0.156	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	0.253	0.020	0.953	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	0.212	0.050	1.19	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	3.25	2.00	7.70	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/04/09 17:01

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07,09 Batch: WG361122-3						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/04/09 17:01

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07,09 Batch: WG361122-3						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/09 17:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 08 Batch: WG361122-7						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cls-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/09 17:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 08 Batch: WG361122-7						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG361122-2					
1,1,1-Trichloroethane	113	-	70-130	-	-
1,1,1,2-Tetrachloroethane	87	-	70-130	-	-
1,1,2,2-Tetrachloroethane	90	-	70-130	-	-
1,1,2-Trichloroethane	98	-	70-130	-	-
1,1-Dichloroethane	105	-	70-130	-	-
1,1-Dichloroethene	105	-	70-130	-	-
1,2,4-Trimethylbenzene	80	-	70-130	-	-
1,2-Dibromoethane	86	-	70-130	-	-
1,2-Dichlorobenzene	78	-	70-130	-	-
1,2-Dichloroethane	104	-	70-130	-	-
1,2-Dichloropropane	99	-	70-130	-	-
1,3,5-Trimethylbenzene	81	-	70-130	-	-
1,3-Dichlorobenzene	80	-	70-130	-	-
1,4-Dichlorobenzene	79	-	70-130	-	-
Benzene	89	-	70-130	-	-
Bromodichloromethane	107	-	70-130	-	-
Bromoform	89	-	70-130	-	-
Carbon tetrachloride	117	-	70-130	-	-
Chlorobenzene	91	-	70-130	-	-
Chloroethane	104	-	70-130	-	-
Chloroform	111	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG361122-2					
Chloromethane	110	-	70-130	-	-
cis-1,2-Dichloroethene	107	-	70-130	-	-
cis-1,3-Dichloropropene	86	-	70-130	-	-
Dibromochloromethane	101	-	70-130	-	-
Dichlorodifluoromethane	107	-	70-130	-	-
Ethylbenzene	86	-	70-130	-	-
Methylene chloride	101	-	70-130	-	-
Methyl tert butyl ether	91	-	70-130	-	-
p/m-Xylene	85	-	70-130	-	-
o-Xylene	87	-	70-130	-	-
Styrene	77	-	70-130	-	-
Tetrachloroethene	101	-	70-130	-	-
Toluene	85	-	70-130	-	-
trans-1,2-Dichloroethene	100	-	70-130	-	-
trans-1,3-Dichloropropene	67	-	70-130	-	-
Trichloroethene	105	-	70-130	-	-
Trichlorofluoromethane	109	-	70-130	-	-
Vinyl chloride	106	-	70-130	-	-
Acrylonitrile	76	-	70-130	-	-
n-Butylbenzene	78	-	70-130	-	-
sec-Butylbenzene	78	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07,09 Batch: WG361122-2					
Isopropylbenzene	84	-	70-130	-	-
p-Isopropyltoluene	71	-	70-130	-	-
Acetone	93	-	70-130	-	-
2-Butanone	98	-	70-130	-	-
4-Methyl-2-pentanone	91	-	70-130	-	-
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 08 Batch: WG361122-6					
1,1,1-Trichloroethane	130	-	70-130	-	-
1,1,1,2-Tetrachloroethane	94	-	70-130	-	-
1,1,2,2-Tetrachloroethane	108	-	70-130	-	-
1,1,2-Trichloroethane	122	-	70-130	-	-
1,1-Dichloroethane	101	-	70-130	-	-
1,1-Dichloroethene	106	-	70-130	-	-
1,2,4-Trimethylbenzene	95	-	70-130	-	-
1,2-Dibromoethane	93	-	70-130	-	-
1,2-Dichlorobenzene	96	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatiles Organics in Air by SIM - Mansfield Lab Associated sample(s): 08 Batch: WG361122-6					
1,2-Dichloroethane	98	-	70-130	-	-
1,2-Dichloropropane	114	-	70-130	-	-
1,3,5-Trimethylbenzene	94	-	70-130	-	-
1,3-Dichlorobenzene	97	-	70-130	-	-
1,4-Dichlorobenzene	97	-	70-130	-	-
Benzene	96	-	70-130	-	-
Bromodichloromethane	119	-	70-130	-	-
Bromoform	91	-	70-130	-	-
Carbon tetrachloride	142	-	70-130	-	-
Chlorobenzene	97	-	70-130	-	-
Chloroethane	103	-	70-130	-	-
Chloroform	111	-	70-130	-	-
Chloromethane	111	-	70-130	-	-
cis-1,2-Dichloroethene	105	-	70-130	-	-
cis-1,3-Dichloropropene	103	-	70-130	-	-
Dibromochloromethane	98	-	70-130	-	-
Dichlorodifluoromethane	106	-	70-130	-	-
Ethylbenzene	97	-	70-130	-	-
Methylene chloride	104	-	70-130	-	-
Methyl tert butyl ether	95	-	70-130	-	-
p/m-Xylene	98	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatiles Organics in Air by SIM - Mansfield Lab Associated sample(s): 08 Batch: WG361122-6					
o-Xylene	101	-	70-130	-	-
Styrene	89	-	70-130	-	-
Tetrachloroethene	100	-	70-130	-	-
Toluene	87	-	70-130	-	-
trans-1,2-Dichloroethene	96	-	70-130	-	-
trans-1,3-Dichloropropene	89	-	70-130	-	-
Trichloroethene	122	-	70-130	-	-
Trichlorofluoromethane	109	-	70-130	-	-
Vinyl chloride	104	-	70-130	-	-
Acrylonitrile	82	-	70-130	-	-
n-Butylbenzene	102	-	70-130	-	-
sec-Butylbenzene	94	-	70-130	-	-
Isopropylbenzene	97	-	70-130	-	-
p-Isopropyltoluene	87	-	70-130	-	-
Acetone	102	-	70-130	-	-
2-Butanone	108	-	70-130	-	-
4-Methyl-2-pentanone	122	-	70-130	-	-



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: KITCHEN STORAGE					
1,1,1-Trichloroethane	0.022	0.022	ppbv	0	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbv	NC	25
1,1,2-Trichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethane	ND	ND	ppbv	NC	25
1,1-Dichloroethene	ND	ND	ppbv	NC	25
1,2,4-Trimethylbenzene	0.031	0.037	ppbv	18	25
1,2-Dibromoethane	ND	ND	ppbv	NC	25
1,2-Dichlorobenzene	ND	ND	ppbv	NC	25
1,2-Dichloroethane	ND	ND	ppbv	NC	25
1,2-Dichloropropane	ND	ND	ppbv	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbv	NC	25
1,3-Dichlorobenzene	ND	ND	ppbv	NC	25
1,4-Dichlorobenzene	0.041	0.051	ppbv	22	25
Benzene	0.186	0.173	ppbv	7	25
Bromodichloromethane	ND	ND	ppbv	NC	25
Bromoform	ND	ND	ppbv	NC	25
Carbon tetrachloride	0.085	0.087	ppbv	2	25
Chlorobenzene	ND	ND	ppbv	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab - Associated sample(s): 01-09 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: KITCHEN STORAGE					
Chloroethane	ND	ND	ppbv	NC	25
Chloroform	0.039	0.037	ppbv	5	25
Chloromethane	0.556	0.564	ppbv	1	25
cis-1,2-Dichloroethene	ND	ND	ppbv	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Dibromochloromethane	ND	ND	ppbv	NC	25
Dichlorodifluoromethane	0.507	0.517	ppbv	2	25
Ethylbenzene	0.045	0.045	ppbv	0	25
Methylene chloride	ND	ND	ppbv	NC	25
Methyl tert butyl ether	ND	ND	ppbv	NC	25
p/m-Xylene	0.105	0.107	ppbv	2	25
o-Xylene	0.033	0.034	ppbv	3	25
Styrene	0.121	0.138	ppbv	13	25
Tetrachloroethene	ND	ND	ppbv	NC	25
Toluene	0.207	0.200	ppbv	3	25
trans-1,2-Dichloroethene	ND	ND	ppbv	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Trichloroethene	ND	ND	ppbv	NC	25
Trichlorofluoromethane	0.265	0.272	ppbv	3	25



Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab - Associated sample(s): 01-09 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: KITCHEN STORAGE					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
Acetone	ND	ND	ppbV	NC	25
2-Butanone	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: DUP Sample					
1,1,1-Trichloroethane	0.035	0.030	ppbV	15	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.163	0.153	ppbV	6	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	0.022	0.020	ppbV	10	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	0.049	0.045	ppbV	9	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	0.707	0.696	ppbV	2	25
Benzene	0.115	0.099	ppbV	15	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.104	0.090	ppbV	14	25
Chlorobenzene	ND	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-09 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: DUP Sample					
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	0.274	0.253	ppbV	6	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.486	0.456	ppbV	6	25
Ethylbenzene	0.075	0.072	ppbV	4	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	0.244	0.234	ppbV	4	25
o-Xylene	0.115	0.109	ppbV	5	25
Styrene	0.057	0.055	ppbV	4	25
Tetrachloroethene	0.102	0.099	ppbV	3	25
Toluene	1.21	1.16	ppbV	4	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	0.551	0.485	ppbV	13	25
Trichlorofluoromethane	0.564	0.530	ppbV	6	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Sample					
Volatile Organics in Air by SIM - Mansfield Lab. Associated sample(s): 01-09 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: DUP					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-isopropyltoluene	ND	ND	ppbV	NC	25
Acetone	9.32	8.10	ppbV	14	25
2-Butanone	1.04	0.899	ppbV	15	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25



Project Name: ALVEREZ HS

Project Number: 14613.01

05070917:21

Lab Number: L0905469

Report Date: 05/07/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0905469-01	GYMNASIUM	0270	#90 SV		-	-	174	175	1
L0905469-01	GYMNASIUM	985	6.0L Can	I0904159	-29.2	0.7	-	-	-
L0905469-02	CAFETERIA	0045	#90 SV		-	-	176	176	0
L0905469-02	CAFETERIA	811	6.0L Can	I0904269	-29.9	0.7	-	-	-
L0905469-03	KITCHEN STORAGE	0019	#16 SV		-	-	171	158	8
L0905469-03	KITCHEN STORAGE	1641	6.0L Can	I0904159	-29.9	0.4	-	-	-
L0905469-04	ELEVATOR HALLWAY	0289	#90 SV		-	-	170	169	1
L0905469-04	ELEVATOR HALLWAY	1647	6.0L Can	I0904159	-29.9	0.4	-	-	-
L0905469-05	RM 145	0404	#90 SV		-	-	173	180	4
L0905469-05	RM 145	639	6.0L Can	I0904159	-29.4	0.7	-	-	-
L0905469-06	RM 152	1517	6.0L Can	I0904159	-29.4	0.7	-	-	-
L0905469-07	RM 118	0036	#90 SV		-	-	173	170	2
L0905469-07	RM 118	771	6.0L Can	I0904269	-29.4	0.7	-	-	-
L0905469-08	RM 110	0272	#90 SV		-	-	175	172	2
L0905469-08	RM 110	951	6.0L Can	I0904269	-29.4	0.7	-	-	-
L0905469-09	AMBIENT OUTDOOR	969	6.0L Can	I0904269	-29.9	-18.9	-	-	-



Project Name: ALVEREZ HS

Lab Number: L0905469

Project Number: 14613.01

Report Date: 05/07/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0905469-01A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-02A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-03A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-04A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-05A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-06A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-07A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-08A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905469-09A	Canister - 6 Liter	N/A	NA		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905469
Report Date: 05/07/09

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised February 18, 2009 – Mansfield Facility

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

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

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

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

Florida Department of Health Certificate/Lab ID: E87814.

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 365.2, EPA 150.1, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 624, 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 9050, 7470, 7471, 9045, EPA 7.3.3.2, EPA 7.3.4.2, 9014, 9065. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

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

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

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

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

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

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

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

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

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

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

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

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

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

Atmospheric Organic Parameters (EPA TO-15)

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

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

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

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299.

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

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

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

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

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

U.S. Army Corps of Engineers

320 Forbes Blvd, Mansfield, MA 02048
 TEL: 508-622-9300 FAX: 508-922-3288

Client Information

Client: *EA Engineering*
 Address: *2350 West RN*
Lewiston, ME 02886
 Phone: *401-736-3448*
 Fax: *401-736-3423*
 Email:

Project Information

Project Name: *Alvarez H.S.*
 Project Location: *Providence, RI*
 Project #: *14613.01*
 Project Manager: *Mark K. Spar*
 ALPHA Quote #:
 Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
 Date Due: *5/7/09* Time:

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments:

Date Rec'd in Lab: *4/30/09*

Report Information - Data Deliverables

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

Report to: (if different than Project Manager)
Mark Deaestica
mspc@deaestica.com

ALPHA Job #: *009054109*

Billing Information

Same as Client info
 PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria
CI TAPB ET LINDOR
AIR QUALITY MONITORING

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Initial	Final	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
		Date	Start Time								
5469, 1	Cyananassins	4/29	7:13	7:43	-30	-2	AA	2400	6.22	0270	PID = 0.067ppm
2	Cafeateria		7:24	7:58	-38	-1				299100945	0.028
3	Litchee Storage		7:26	8:00	-29	-1				7613 0019	0.004
4	Elevator Hallway		7:23	7:55	-30	-1				7623 0289	0.050
5	AM 145		7:15	7:45	-38	-2				3983 0404	0
6	AM 152		7:16	7:46	-30	-1				18460062	0
7	AM 118		7:19	7:50	-30+	-4				3984 0036	0
8	AM 113		7:20	7:50	-30	-1				4016 0272	0
9	Ambient Outside		8:49	9:22	-29	-28				6822 0005	0

***SAMPLE MATRIX CODES**

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

Requested By: *[Signature]* Date/Time: *4/29/09 10:20*
 Receiver By: *[Signature]* Date/Time: *4/30/09 12:10*

Form No: 101-02 (rev. 1-Feb-08)
 Paul S. Wilbur 5-109 8100
 5/1/09 13:20

Attachment B

Subslab Vapor Analytical Report
29 April 2009



ANALYTICAL REPORT

Lab Number: L0905467

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

ATTN: Mark Speer

Project Name: ALVEREZ HS

Project Number: 14613.01

Report Date: 05/07/09

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0905467-01	MP-3	PROVIDENCE, RI	04/29/09 09:38
L0905467-02	MP-7	PROVIDENCE, RI	04/29/09 10:12
L0905467-03	IMP-1	PROVIDENCE, RI	04/29/09 08:15
L0905467-04	IMP-3	PROVIDENCE, RI	04/29/09 08:46

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Case Narrative

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

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

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

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

Volatile Organics in Air by SIM

L0905467-01 and -02: The results for Chloromethane should be considered estimated due to co-elution with a non-target peak.

L0905467-01 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result is qualified with an E flag for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

The WG361122-2 LCS recovery associated with L0905467-01 through -03 is below the acceptance criteria of 70-130% for trans-1,3-Dichloropropene (67%). The LCS was within overall method allowances, therefore the analysis proceeded.

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Case Narrative (continued)

The WG361122-6 LCS recovery associated with L0905467-01 and -04 is above the acceptance criteria of 70-130% for Carbon tetrachloride (142%). The LCS was within overall method allowances, therefore the analysis proceeded.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 05/07/09

AIR

Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-01
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/05/09 00:26
 Analyst: BS

Date Collected: 04/29/09 09:38
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.032	0.020	0.174	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	0.047	0.020	0.190	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.054	0.020	0.265	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.079	0.020	0.319	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.030	0.020	0.147	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.199	0.020	1.20	0.120		1
Benzene	0.189	0.070	0.603	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.077	0.020	0.484	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.052	0.020	0.137	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	4.59	0.500	22.4	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-01
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 09:38
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.488	0.050	2.41	0.247		1
Ethylbenzene	0.045	0.020	0.195	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.108	0.040	0.468	0.174		1
o-Xylene	0.040	0.020	0.174	0.087		1
Styrene	0.041	0.020	0.174	0.085		1
Tetrachloroethene	0.040	0.020	0.271	0.136		1
Toluene	0.529	0.020	1.99	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.041	0.020	0.220	0.107		1
Trichlorofluoromethane	0.258	0.050	1.45	0.281		1
Vinyl chloride	0.024	0.020	0.061	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	836	2.00	1980	4.75	E	1
2-Butanone	4220	0.500	12400	1.47	E	1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-01 D3
 Client ID: MP-3
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/07/09 08:56
 Analyst: BS

Date Collected: 04/29/09 09:38
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Acelone	484	316	1150	750		158.1
2-Butanone	5640	79.0	16600	233		158.1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-02
 Client ID: MP-7
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 23:18
 Analyst: BS

Date Collected: 04/29/09 10:12
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.027	0.020	0.147	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.077	0.020	0.378	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.026	0.020	0.128	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.318	0.020	1.91	0.120		1
Benzene	0.077	0.070	0.246	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.084	0.020	0.528	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	0.024	0.020	0.063	0.053		1
Chloroform	0.028	0.020	0.136	0.098		1
Chloromethane	3.98	0.500	19.4	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-02
 Client ID: MP-7
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 10:12
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.764	0.050	3.78	0.247		1
Ethylbenzene	0.044	0.020	0.191	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.119	0.040	0.516	0.174		1
o-Xylene	0.048	0.020	0.208	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	0.045	0.020	0.305	0.136		1
Toluene	0.173	0.020	0.651	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.223	0.020	1.20	0.107		1
Trichlorofluoromethane	0.754	0.050	4.23	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	9.82	2.00	23.3	4.75		1
2-Butanone	12.9	0.500	38.1	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1

Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-03
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/04/09 23:52
 Analyst: BS

Date Collected: 04/29/09 08:15
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.029	0.020	0.158	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	0.030	0.020	0.121	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.144	0.020	0.707	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.043	0.020	0.211	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.685	0.020	4.12	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.083	0.020	0.522	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropane	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-03
 Client ID: IMP-1
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 08:15
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.458	0.050	2.26	0.247		1
Ethylbenzene	0.070	0.020	0.304	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.215	0.040	0.933	0.174		1
o-Xylene	0.085	0.020	0.369	0.087		1
Styrene	0.023	0.020	0.098	0.085		1
Tetrachloroethene	0.035	0.020	0.237	0.136		1
Toluene	0.396	0.020	1.49	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.073	0.020	0.392	0.107		1
Trichlorofluoromethane	0.227	0.050	1.27	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	2.17	2.00	5.15	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-04
 Client ID: IMP-3
 Sample Location: PROVIDENCE, RI
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/06/09 23:03
 Analyst: BS

Date Collected: 04/29/09 08:46
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
1,1,1-Trichloroethane	0.035	0.020	0.191	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	0.163	0.020	0.801	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	0.022	0.020	0.089	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	0.049	0.020	0.241	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	0.707	0.020	4.25	0.120		1
Benzene	0.115	0.070	0.367	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	0.104	0.020	0.654	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	0.274	0.020	1.34	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

SAMPLE RESULTS

Lab ID: L0905467-04
 Client ID: IMP-3
 Sample Location: PROVIDENCE, RI

Date Collected: 04/29/09 08:46
 Date Received: 04/30/09
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab						
Dichlorodifluoromethane	0.486	0.050	2.40	0.247		1
Ethylbenzene	0.075	0.020	0.325	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	0.244	0.040	1.06	0.174		1
o-Xylene	0.115	0.020	0.499	0.087		1
Styrene	0.057	0.020	0.243	0.085		1
Tetrachloroethene	0.102	0.020	0.691	0.136		1
Toluene	1.21	0.020	4.56	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	0.551	0.020	2.96	0.107		1
Trichlorofluoromethane	0.564	0.050	3.17	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	9.32	2.00	22.1	4.75		1
2-Butanone	1.04	0.500	3.06	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/04/09 17:01

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG361122-3						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM
Analytical Date: 05/04/09 17:01

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG361122-3						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/09 17:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,04 Batch: WG361122-7						
1,1,1-Trichloroethane	ND	0.020	ND	0.109		1
1,1,1,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.137		1
1,1,2-Trichloroethane	ND	0.020	ND	0.109		1
1,1-Dichloroethane	ND	0.020	ND	0.081		1
1,1-Dichloroethene	ND	0.020	ND	0.079		1
1,2,4-Trimethylbenzene	ND	0.020	ND	0.098		1
1,2-Dibromoethane	ND	0.020	ND	0.154		1
1,2-Dichlorobenzene	ND	0.020	ND	0.120		1
1,2-Dichloroethane	ND	0.020	ND	0.081		1
1,2-Dichloropropane	ND	0.020	ND	0.092		1
1,3,5-Trimethylbenzene	ND	0.020	ND	0.098		1
1,3-Dichlorobenzene	ND	0.020	ND	0.120		1
1,4-Dichlorobenzene	ND	0.020	ND	0.120		1
Benzene	ND	0.070	ND	0.223		1
Bromodichloromethane	ND	0.020	ND	0.134		1
Bromoform	ND	0.020	ND	0.206		1
Carbon tetrachloride	ND	0.020	ND	0.126		1
Chlorobenzene	ND	0.020	ND	0.092		1
Chloroethane	ND	0.020	ND	0.053		1
Chloroform	ND	0.020	ND	0.098		1
Chloromethane	ND	0.500	ND	2.44		1
cis-1,2-Dichloroethene	ND	0.020	ND	0.079		1
cis-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Dibromochloromethane	ND	0.020	ND	0.096		1



Project Name: ALVEREZ HS

Lab Number: L0905467

Project Number: 14613.01

Report Date: 05/07/09

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/09 17:02

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01,04 Batch: WG361122-7						
Dichlorodifluoromethane	ND	0.050	ND	0.247		1
Ethylbenzene	ND	0.020	ND	0.087		1
Methylene chloride	ND	0.500	ND	1.74		1
Methyl tert butyl ether	ND	0.020	ND	0.072		1
p/m-Xylene	ND	0.040	ND	0.174		1
o-Xylene	ND	0.020	ND	0.087		1
Styrene	ND	0.020	ND	0.085		1
Tetrachloroethene	ND	0.020	ND	0.136		1
Toluene	ND	0.020	ND	0.075		1
trans-1,2-Dichloroethene	ND	0.020	ND	0.079		1
trans-1,3-Dichloropropene	ND	0.020	ND	0.091		1
Trichloroethene	ND	0.020	ND	0.107		1
Trichlorofluoromethane	ND	0.050	ND	0.281		1
Vinyl chloride	ND	0.020	ND	0.051		1
Acrylonitrile	ND	0.500	ND	1.08		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
Isopropylbenzene	ND	0.500	ND	2.46		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1
Acetone	ND	2.00	ND	4.75		1
2-Butanone	ND	0.500	ND	1.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatiles Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG361122-2					
1,1,1-Trichloroethane	113	-	70-130	-	-
1,1,1,2-Tetrachloroethane	87	-	70-130	-	-
1,1,2,2-Tetrachloroethane	90	-	70-130	-	-
1,1,2-Trichloroethane	98	-	70-130	-	-
1,1-Dichloroethane	105	-	70-130	-	-
1,1-Dichloroethene	105	-	70-130	-	-
1,2,4-Trimethylbenzene	80	-	70-130	-	-
1,2-Dibromoethane	86	-	70-130	-	-
1,2-Dichlorobenzene	78	-	70-130	-	-
1,2-Dichloroethane	104	-	70-130	-	-
1,2-Dichloropropane	99	-	70-130	-	-
1,3,5-Trimethylbenzene	81	-	70-130	-	-
1,3-Dichlorobenzene	80	-	70-130	-	-
1,4-Dichlorobenzene	79	-	70-130	-	-
Benzene	89	-	70-130	-	-
Bromodichloromethane	107	-	70-130	-	-
Bromoform	89	-	70-130	-	-
Carbon tetrachloride	117	-	70-130	-	-
Chlorobenzene	91	-	70-130	-	-
Chloroethane	104	-	70-130	-	-
Chloroform	111	-	70-130	-	-



Lab Control Sample Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG361122-2					
Chloromethane	110	-	70-130	-	-
cis-1,2-Dichloroethene	107	-	70-130	-	-
cis-1,3-Dichloropropene	85	-	70-130	-	-
Dibromochloromethane	101	-	70-130	-	-
Dichlorodifluoromethane	107	-	70-130	-	-
Ethylbenzene	85	-	70-130	-	-
Methylene chloride	101	-	70-130	-	-
Methyl tert butyl ether	91	-	70-130	-	-
p/m-Xylene	85	-	70-130	-	-
o-Xylene	87	-	70-130	-	-
Styrene	77	-	70-130	-	-
Tetrachloroethene	101	-	70-130	-	-
Toluene	85	-	70-130	-	-
trans-1,2-Dichloroethene	100	-	70-130	-	-
trans-1,3-Dichloropropene	67	-	70-130	-	-
Trichloroethene	105	-	70-130	-	-
Trichlorofluoromethane	109	-	70-130	-	-
Vinyl chloride	106	-	70-130	-	-
Acrylonitrile	75	-	70-130	-	-
n-Butylbenzene	78	-	70-130	-	-
sec-Butylbenzene	78	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG361122-2					
Isopropylbenzene	84	-	70-130	-	-
p-Isopropyltoluene	71	-	70-130	-	-
Acetone	93	-	70-130	-	-
2-Butanone	98	-	70-130	-	-
4-Methyl-2-pentanone	91	-	70-130	-	-
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,04 Batch: WG361122-6					
1,1,1-Trichloroethane	130	-	70-130	-	-
1,1,1,2-Tetrachloroethane	94	-	70-130	-	-
1,1,2,2-Tetrachloroethane	108	-	70-130	-	-
1,1,2-Trichloroethane	122	-	70-130	-	-
1,1-Dichloroethane	101	-	70-130	-	-
1,1-Dichloroethene	106	-	70-130	-	-
1,2,4-Trimethylbenzene	96	-	70-130	-	-
1,2-Dibromoethane	93	-	70-130	-	-
1,2-Dichlorobenzene	96	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,04 Batch: WG361122-6					
1,2-Dichloroethane	98	-	70-130	-	-
1,2-Dichloropropane	114	-	70-130	-	-
1,3,5-Trimethylbenzene	94	-	70-130	-	-
1,3-Dichlorobenzene	97	-	70-130	-	-
1,4-Dichlorobenzene	97	-	70-130	-	-
Benzene	96	-	70-130	-	-
Bromodichloromethane	119	-	70-130	-	-
Bromoform	91	-	70-130	-	-
Carbon tetrachloride	142	-	70-130	-	-
Chlorobenzene	97	-	70-130	-	-
Chloroethane	103	-	70-130	-	-
Chloroform	111	-	70-130	-	-
Chloromethane	111	-	70-130	-	-
cis-1,2-Dichloroethene	105	-	70-130	-	-
cis-1,3-Dichloropropene	103	-	70-130	-	-
Dibromochloromethane	98	-	70-130	-	-
Dichlorodifluoromethane	106	-	70-130	-	-
Ethylbenzene	97	-	70-130	-	-
Methylene chloride	104	-	70-130	-	-
Methyl tert butyl ether	95	-	70-130	-	-
p/m-Xylene	98	-	70-130	-	-



Lab Control Sample Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01,04 Batch: WG361122-6					
o-Xylene	101	-	70-130	-	-
Styrene	89	-	70-130	-	-
Tetrachloroethene	100	-	70-130	-	-
Toluene	87	-	70-130	-	-
trans-1,2-Dichloroethene	96	-	70-130	-	-
trans-1,3-Dichloropropene	89	-	70-130	-	-
Trichloroethene	122	-	70-130	-	-
Trichlorofluoromethane	109	-	70-130	-	-
Vinyl chloride	104	-	70-130	-	-
Acrylonitrile	82	-	70-130	-	-
n-Butylbenzene	102	-	70-130	-	-
sec-Butylbenzene	94	-	70-130	-	-
Isopropylbenzene	97	-	70-130	-	-
p-Isopropyltoluene	87	-	70-130	-	-
Acetone	102	-	70-130	-	-
2-Butanone	108	-	70-130	-	-
4-Methyl-2-pentanone	122	-	70-130	-	-



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: DUP					
Sample					
1,1,1-Trichloroethane	0.022	0.022	ppbV	0	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.031	0.037	ppbV	18	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	0.041	0.051	ppbV	22	25
Benzene	0.186	0.173	ppbV	7	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.085	0.087	ppbV	2	25
Chlorobenzene	ND	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: DUP Sample					
Chloroethane	ND	ND	ppbv	NC	25
Chloroform	0.039	0.037	ppbv	5	25
Chloromethane	0.556	0.564	ppbv	1	25
cis-1,2-Dichloroethene	ND	ND	ppbv	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Dibromochloromethane	ND	ND	ppbv	NC	25
Dichlorodifluoromethane	0.507	0.517	ppbv	2	25
Ethylbenzene	0.045	0.045	ppbv	0	25
Methylene chloride	ND	ND	ppbv	NC	25
Methyl tert butyl ether	ND	ND	ppbv	NC	25
p/m-Xylene	0.105	0.107	ppbv	2	25
o-Xylene	0.033	0.034	ppbv	3	25
Styrene	0.121	0.138	ppbv	13	25
Tetrachloroethene	ND	ND	ppbv	NC	25
Toluene	0.207	0.200	ppbv	3	25
trans-1,2-Dichloroethene	ND	ND	ppbv	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbv	NC	25
Trichloroethene	ND	ND	ppbv	NC	25
Trichlorofluoromethane	0.265	0.272	ppbv	3	25



Lab Duplicate Analysis

Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Sample					
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG361122-4 QC Sample: L0905469-03 Client ID: DUP					
Vinyl chloride	ND	ND	ppbv	NC	25
Acrylonitrile	ND	ND	ppbv	NC	25
n-Butylbenzene	ND	ND	ppbv	NC	25
sec-Butylbenzene	ND	ND	ppbv	NC	25
Isopropylbenzene	ND	ND	ppbv	NC	25
p-Isopropyltoluene	ND	ND	ppbv	NC	25
Acetone	ND	ND	ppbv	NC	25
2-Butanone	ND	ND	ppbv	NC	25
4-Methyl-2-pentanone	ND	ND	ppbv	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatiles Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: IMP-3					
1,1,1-Trichloroethane	0.035	0.030	ppbV	15	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.163	0.153	ppbV	6	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	0.022	0.020	ppbV	10	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	0.049	0.045	ppbV	9	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	0.707	0.696	ppbV	2	25
Benzene	0.115	0.099	ppbV	15	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	0.104	0.090	ppbV	14	25
Chlorobenzene	ND	ND	ppbV	NC	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab - Associated sample(s): 01-04 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: IMP-3					
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	0.274	0.253	ppbV	8	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	0.486	0.456	ppbV	6	25
Ethylbenzene	0.075	0.072	ppbV	4	25
Methylene chloride	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	0.244	0.234	ppbV	4	25
o-Xylene	0.115	0.109	ppbV	5	25
Styrene	0.057	0.055	ppbV	4	25
Tetrachloroethene	0.102	0.099	ppbV	3	25
Toluene	1.21	1.16	ppbV	4	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	0.551	0.485	ppbV	13	25
Trichlorofluoromethane	0.564	0.530	ppbV	6	25



Lab Duplicate Analysis Batch Quality Control

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG361122-8 QC Sample: L0905467-04 Client ID: IMP-3					
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25
Acetone	9.32	8.10	ppbV	14	25
2-Butanone	1.04	0.899	ppbV	15	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25



Project Name: ALVEREZ HS

Project Number: 14613.01

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Lab Number: L0905467

Report Date: 05/07/09

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Cleaning Batch ID	Initial Pressure (In. Hg)	Pressure on Receipt (In. Hg)	Flow Out mL/min	Flow In mL/min	% RSD
L0905467-01	MP-3	0152	#90 SV		-	-	79	90	13
L0905467-01	MP-3	506	2.7L Can	I0904683	-30.0	-2.0	-	-	-
L0905467-02	MP-7	0368	#90 SV		-	-	75	73	3
L0905467-02	MP-7	381	2.7L Can	I0904683	-29.8	-4.4	-	-	-
L0905467-03	IMP-1	0206	#90 SV		-	-	80	74	8
L0905467-03	IMP-1	163	2.7L Can	I0904683	-30.0	-3.8	-	-	-
L0905467-04	IMP-3	0448	#90 SV		-	-	80	75	6
L0905467-04	IMP-3	255	2.7L Can	I0904683	-29.2	0.1	-	-	-



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0905467-01A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905467-02A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905467-03A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-SIM(30)
L0905467-04A	Canister - 2.7 Liter	N/A	NA		NA	Absent	TO15-SIM(30)

*Hold days indicated by values in parentheses

Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: ALVEREZ HS
Project Number: 14613.01

Lab Number: L0905467
Report Date: 05/07/09

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised February 18, 2009 – Mansfield Facility

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

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

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

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

Florida Department of Health Certificate/Lab ID: E87814.

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH3-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 365.2, EPA 150.1, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 624, 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 9050, 7470, 7471, 9045, EPA 7.3.3.2, EPA 7.3.4.2, 9014, 9065. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

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

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

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

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

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

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

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

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

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

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

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

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

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

Atmospheric Organic Parameters (EPA TO-15)

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

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

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

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299.

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

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

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

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

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

U.S. Army Corps of Engineers



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 1 OF 1

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

Client Information

Client: EA Engineering
 Address: 2350 Post Rd
Lewiston, RI 02886
 Phone: 401-536-3448
 Fax: 401-736-3423
 Email:

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments:

Project Information

Project Name: Alvarez H.S
 Project Location: Rendence, RI
 Project #: 14613.01
 Project Manager: Mark K. Spear
 ALPHA Quote #:
 Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 10 days
 Date Due: 5/7/09 Time:

Report Information - Data Deliverables

Date Rec'd in Lab: 4/30/09

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

ALPHA Job #: 169054107

Billing Information

Same as Client Info PO #:
 Regulatory Requirements/Report Limits
 State/Fed Program Criteria
CITRACET TYPING
AIR CONCENTRATIONS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION		Initial	Final	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Floor Controller	ANALYSIS				Sample Comments (i.e. PID)	
		Date	Start Time								End Time	Vacuum	Vacuum	TO-14A by TO-15		TO-15
0467.1	MD-3	4/29	9:10	9:38	-30"	-4	SV	DABR	2.2L	0506.6152		X				OTD = 5/25/09 BDS/PPA
2	MD-7		9:45	10:12	-29"	-4				03810368						0.012
3	IMP-1		7:47	8:15	-30"	-1				01650206						0.044
4	IMP-3		8:16	8:44	-29"	-1				02570448						0

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

Container Type: S

Relinquished by: [Signature] Date/Time: 4/30/09 18:00

Received By: [Signature] Date/Time: 4/30/09 18:00

Paul S. West 5-1-09 18:20

Form No: 101-02 (rev. 1-Feb-08)