



ANALYTICAL REPORT

Lab Number: L0704069

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

ATTN: Peter Grivers

Project Name: GORHAM SCHOOL

Project Number: 6196501

Report Date: 04/09/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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Project Name: GORHAM SCHOOL
Project Number: 6196501

Lab Number: L0704069
Report Date: 04/09/07

Alpha Sample ID	Client ID	Sample Location
L0704069-01	ROOFTOP FAN 1	PROVIDENCE, RI
L0704069-02	ROOFTOP FAN 2	PROVIDENCE, RI
L0704069-03	ROOFTOP FAN 3	PROVIDENCE, RI

Project Name: GORHAM SCHOOL
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Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Report Submission

It should be noted that the results for the submitted samples are reported by TO-15 rather than TO-15SIM due to the high concentration of target analytes present.

TO15

Re-analysis on dilution was required in order to quantitate samples within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis.

The re-analysis was performed only for the compound which exceeded the range of the calibration. The dilutions are as follows:

L0704069-01(5x)

L0704069-03 (10x)

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

Date: 04/09/07

AIR

Project Name: GORHAM SCHOOL
Project Number: 6196501

Lab Number: L0704069
Report Date: 04/09/07

SAMPLE RESULTS

Lab ID: L0704069-01
 Client ID: ROOFTOP FAN 1
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/07 15:55
 Analyst:

Date Collected: 03/22/07 15:30
 Date Received: 03/23/07
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	1.16	0.500	6.32	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trimethylbenzene	0.540	0.500	2.65	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	1.22	0.500	7.33	3.00		1
2-Butanone	>100	0.5	>294	1.47		1
Acetone	>100	2	>238	4.75		1
Benzene	ND	0.500	ND	1.60		1
Bromodichloromethane	ND	0.500	ND	3.35		1
Bromoform	ND	0.500	ND	5.16		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	1.64	0.500	8.00	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1



Project Name: GORHAM SCHOOL

Lab Number: L0704069

Project Number: 6196501

Report Date: 04/09/07

SAMPLE RESULTS

Lab ID: L0704069-01
 Client ID: ROOFTOP FAN 1
 Sample Location: PROVIDENCE, RI

Date Collected: 03/22/07 15:30
 Date Received: 03/23/07
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethylbenzene	ND	0.500	ND	2.17		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	1.80	0.500	12.2	3.39		1
Toluene	5.95	0.500	22.4	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	21.4	0.500	115	2.68		1
Trichlorofluoromethane	>100	0.5	>561	2.81		1
Vinyl chloride	ND	0.500	ND	1.28		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43		1
Isopropylbenzene	ND	0.500	ND	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1



Project Name: GORHAM SCHOOL**Lab Number:** L0704069**Project Number:** 6196501**Report Date:** 04/09/07**SAMPLE RESULTS**

Lab ID: L0704069-01 R
Client ID: ROOFTOP FAN 1
Sample Location: PROVIDENCE, RI
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/30/07 18:16
Analyst:

Date Collected: 03/22/07 15:30
Date Received: 03/23/07
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
2-Butanone	482	2.50	1420	7.37		5
Acetone	190	10.0	450	23.7		5
Trichlorofluoromethane	129	2.50	725	14.0		5



Project Name: GORHAM SCHOOL
Project Number: 6196501

Lab Number: L0704069
Report Date: 04/09/07

SAMPLE RESULTS

Lab ID: L0704069-02
 Client ID: ROOFTOP FAN 2
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/07 15:20
 Analyst:

Date Collected: 03/22/07 15:25
 Date Received: 03/23/07
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	0.880	0.500	4.80	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	1.14	0.500	6.85	3.00		1
2-Butanone	27.2	0.500	80.1	1.47		1
Acetone	13.1	2.00	31.1	4.75		1
Benzene	ND	0.500	ND	1.60		1
Bromodichloromethane	ND	0.500	ND	3.35		1
Bromoform	ND	0.500	ND	5.16		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1



Project Name: GORHAM SCHOOL

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SAMPLE RESULTS

Lab ID: L0704069-02

Date Collected: 03/22/07 15:25

Client ID: ROOFTOP FAN 2

Date Received: 03/23/07

Sample Location: PROVIDENCE, RI

Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethylbenzene	ND	0.500	ND	2.17		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	1.41	0.500	9.56	3.39		1
Toluene	4.14	0.500	15.6	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	14.8	0.500	79.7	2.68		1
Trichlorofluoromethane	50.2	0.500	282	2.81		1
Vinyl chloride	ND	0.500	ND	1.28		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43		1
Isopropylbenzene	ND	0.500	ND	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1



Project Name: GORHAM SCHOOL
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Lab Number: L0704069
Report Date: 04/09/07

SAMPLE RESULTS

Lab ID: L0704069-03
 Client ID: ROOFTOP FAN 3
 Sample Location: PROVIDENCE, RI
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/30/07 14:46
 Analyst:

Date Collected: 03/22/07 15:50
 Date Received: 03/23/07
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	1.03	0.500	6.19	3.00		1
2-Butanone	>100	0.5	>294	1.47		1
Acetone	>100	2	>237	4.75		1
Benzene	ND	0.500	ND	1.60		1
Bromodichloromethane	ND	0.500	ND	3.35		1
Bromoform	ND	0.500	ND	5.16		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1



Project Name: GORHAM SCHOOL

Lab Number: L0704069

Project Number: 6196501

Report Date: 04/09/07

SAMPLE RESULTS

Lab ID: L0704069-03
 Client ID: ROOFTOP FAN 3
 Sample Location: PROVIDENCE, RI

Date Collected: 03/22/07 15:50
 Date Received: 03/23/07
 Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethylbenzene	10.1	0.500	43.8	2.17		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	15.8	1.00	68.8	4.34		1
o-Xylene	3.21	0.500	13.9	2.17		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	0.830	0.500	5.62	3.39		1
Toluene	>100	0.5	>377	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	20.9	0.500	117	2.81		1
Vinyl chloride	ND	0.500	ND	1.28		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43		1
Isopropylbenzene	ND	0.500	ND	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1



Project Name: GORHAM SCHOOL**Lab Number:** L0704069**Project Number:** 6196501**Report Date:** 04/09/07**SAMPLE RESULTS**

Lab ID: L0704069-03 R
Client ID: ROOFTOP FAN 3
Sample Location: PROVIDENCE, RI
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/30/07 16:29
Analyst:

Date Collected: 03/22/07 15:50
Date Received: 03/23/07
Field Prep: Not Specified

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air						
2-Butanone	835	5.00	2460	14.7		10
Acetone	166	20.0	394	47.5		10
Toluene	274	5.00	1030	18.8		10

Project Name: GORHAM SCHOOL

Lab Number: L0704069

Project Number: 6196501

Report Date: 04/09/07

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/30/07 14:04

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air for sample(s): 01-03 Batch: WG275216-2						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
2-Butanone	ND	0.500	ND	1.47		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Bromodichloromethane	ND	0.500	ND	3.35		1
Bromoform	ND	0.500	ND	5.16		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1



Project Name: GORHAM SCHOOL

Lab Number: L0704069

Project Number: 6196501

Report Date: 04/09/07

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/30/07 14:04

Parameter	ppbV		ug/m3		Qualifier	Dilution Factor
	Results	RDL	Results	RDL		
Volatile Organic Compounds in Air for sample(s): 01-03 Batch: WG275216-2						
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethylbenzene	ND	0.500	ND	2.17		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl chloride	ND	0.500	ND	1.28		1
Acrylonitrile	ND	0.500	ND	1.08		1
1,1,1,2-Tetrachloroethane	ND	0.500	ND	3.43		1
Isopropylbenzene	ND	0.500	ND	2.46		1
n-Butylbenzene	ND	0.500	ND	2.74		1
sec-Butylbenzene	ND	0.500	ND	2.74		1
p-Isopropyltoluene	ND	0.500	ND	2.74		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG275216-1					
1,1,1-Trichloroethane	79	-	70-130	-	
1,1,2,2-Tetrachloroethane	104	-	70-130	-	
1,1,2-Trichloroethane	101	-	70-130	-	
1,1-Dichloroethane	99	-	70-130	-	
1,1-Dichloroethene	92	-	70-130	-	
1,2,4-Trichlorobenzene	87	-	70-130	-	
1,2,4-Trimethylbenzene	83	-	70-130	-	
1,2-Dibromoethane	101	-	70-130	-	
1,2-Dichlorobenzene	105	-	70-130	-	
1,2-Dichloroethane	82	-	70-130	-	
1,2-Dichloropropane	107	-	70-130	-	
1,3,5-Trimethylbenzene	85	-	70-130	-	
1,3-Butadiene	118	-	70-130	-	
1,3-Dichlorobenzene	104	-	70-130	-	
1,4-Dichlorobenzene	101	-	70-130	-	
1,4-Dioxane	97	-	70-130	-	
2,2,4-Trimethylpentane	108	-	70-130	-	
2-Butanone	87	-	70-130	-	
2-Hexanone	76	-	70-130	-	
3-Chloropropene	99	-	70-130	-	
4-Ethyltoluene	89	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG275216-1					
Acetone	88	-	70-130	-	
Benzene	93	-	70-130	-	
Benzyl chloride	78	-	70-130	-	
Bromodichloromethane	91	-	70-130	-	
Bromoform	111	-	70-130	-	
Bromomethane	80	-	70-130	-	
Carbon disulfide	109	-	70-130	-	
Carbon tetrachloride	81	-	70-130	-	
Chlorobenzene	100	-	70-130	-	
Chloroethane	107	-	70-130	-	
Chloroform	89	-	70-130	-	
Chloromethane	95	-	70-130	-	
cis-1,2-Dichloroethene	100	-	70-130	-	
cis-1,3-Dichloropropene	87	-	70-130	-	
Cyclohexane	103	-	70-130	-	
Dibromochloromethane	98	-	70-130	-	
Dichlorodifluoromethane	82	-	70-130	-	
Ethyl Alcohol	84	-	70-130	-	
Ethyl Acetate	80	-	70-130	-	
Ethylbenzene	101	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	97	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG275216-1					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	101	-	70-130	-	
Hexachlorobutadiene	84	-	70-130	-	
iso-Propyl Alcohol	81	-	70-130	-	
Methylene chloride	107	-	70-130	-	
4-Methyl-2-pentanone	100	-	70-130	-	
Methyl tert butyl ether	97	-	70-130	-	
p/m-Xylene	100	-	70-130	-	
o-Xylene	104	-	70-130	-	
n-Heptane	105	-	70-130	-	
n-Hexane	111	-	70-130	-	
Propylene	88	-	70-130	-	
Styrene	95	-	70-130	-	
Tetrachloroethene	98	-	70-130	-	
Tetrahydrofuran	117	-	70-130	-	
Toluene	99	-	70-130	-	
trans-1,2-Dichloroethene	104	-	70-130	-	
trans-1,3-Dichloropropene	72	-	70-130	-	
Trichloroethene	100	-	70-130	-	
Trichlorofluoromethane	76	-	70-130	-	
Vinyl acetate	82	-	70-130	-	
Vinyl bromide	107	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG275216-1					
Vinyl chloride	111	-	70-130	-	
Naphthalene	81	-	70-130	-	
Propane	93	-	70-130	-	
Acrylonitrile	123	-	70-130	-	
Acrolein	76	-	70-130	-	
1,1,1,2-Tetrachloroethane	88	-	70-130	-	
Isopropylbenzene	100	-	70-130	-	
1,2,3-Trichloropropane	90	-	70-130	-	
Acetonitrile	102	-	70-130	-	
Bromobenzene	93	-	70-130	-	
Chlorodifluoromethane	89	-	70-130	-	
Dichlorofluoromethane	90	-	70-130	-	
Dibromomethane	93	-	70-130	-	
Pentane	100	-	70-130	-	
Octane	98	-	70-130	-	
Tertiary-Amyl Methyl Ether	82	-	70-130	-	
o-Chlorotoluene	99	-	70-130	-	
p-Chlorotoluene	96	-	70-130	-	
2,2-Dichloropropane	85	-	70-130	-	
1,1-Dichloropropene	87	-	70-130	-	
Isopropyl Ether	102	-	70-130	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 Batch: WG275216-1					
Ethyl-Tert-Butyl-Ether	86	-	70-130	-	
1,2,3-Trichlorobenzene	66	-	70-130	-	
Ethyl ether	100	-	70-130	-	
n-Butylbenzene	72	-	70-130	-	
sec-Butylbenzene	80	-	70-130	-	
tert-Butylbenzene	82	-	70-130	-	
1,2-Dibromo-3-chloropropane	96	-	70-130	-	
p-Isopropyltoluene	82	-	70-130	-	
n-Propylbenzene	94	-	70-130	-	
1,3-Dichloropropane	92	-	70-130	-	
Methanol	89	-	70-130	-	
Butane	93	-	70-130	-	
Nonane (C9)	74	-	70-130	-	
Decane (C10)	92	-	70-130	-	
Undecane	110	-	70-130	-	
Dodecane (C12)	68	-	70-130	-	

Lab Duplicate Analysis

Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG275216-3 QC Sample: L0704069-02 Client ID: ROOFTOP FAN 2					
1,1,1-Trichloroethane	0.880	0.990	ppbV	12	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	ND	ND	ppbV	NC	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	1.14	1.07	ppbV	6	25
2-Butanone	27.2	30.8	ppbV	12	25
Acetone	13.1	13.6	ppbV	4	25
Benzene	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG275216-3 QC Sample: L0704069-02 Client ID: ROOFTOP FAN 2					
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	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	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	1.41	1.34	ppbV	5	25
Toluene	4.14	3.86	ppbV	7	25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: GORHAM SCHOOL

Project Number: 6196501

Lab Number: L0704069

Report Date: 04/09/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01-03 QC Batch ID: WG275216-3 QC Sample: L0704069-02 Client ID: ROOFTOP FAN 2					
Trichloroethene	14.8	14.8	ppbV	0	25
Trichlorofluoromethane	50.2	55.3	ppbV	10	25
Vinyl chloride	ND	ND	ppbV	NC	25
Acrylonitrile	ND	ND	ppbV	NC	25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC	25
Isopropylbenzene	ND	ND	ppbV	NC	25
n-Butylbenzene	ND	ND	ppbV	NC	25
sec-Butylbenzene	ND	ND	ppbV	NC	25
p-Isopropyltoluene	ND	ND	ppbV	NC	25

Project Name: GORHAM SCHOOL**Lab Number:** L0704069**Project Number:** 6196501**Report Date:** 04/09/07**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
L0704069-01A	Canister - 2.7 Liter	N/A	NA	NA	NA	Absent	TO-15
L0704069-02A	Canister - 2.7 Liter	N/A	NA	NA	NA	Absent	TO-15
L0704069-03A	Canister - 2.7 Liter	N/A	NA	NA	NA	Absent	TO-15

Project Name: GORHAM SCHOOL
Project Number: 6196501

Lab Number: L0704069
Report Date: 04/09/07

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.
- 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.
- 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 following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Project Name: GORHAM SCHOOL
Project Number: 6196501

Lab Number: L0704069
Report Date: 04/09/07

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 Woods Hole Labs 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 Woods Hole Labs 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.





AIR ANALYSIS

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

CHAIN OF CUSTODY

PAGE 1 OF 1

Client Information

Client: EA Engineering, Sci, & Tech
 Address: 235D Post Rd
 Warwick, RI 02886
 Phone: 401-736-3440
 Fax: 401-736-3423
 Email: pgrivers@east.com

Project Information

Project Name: Gosham School
 Project Location: Providence, RI
 Project #: 6196501
 Project Manager: Peter Grivers
 ALPHA Quote #:
 Turn-Around Time

Standard TO-15, 10 DAYS
 RUSH (only confirmed if pre-approved)
 Date Due: 4/06 Time:

Other Project Specific Requirements/Comments:

Date Rec'd In Lab: 3/23

Report Information - Data Deliverables

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

ALPHA Job #: 2009069

Billing Information

Same as Client info
 PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria
 CT Draft Proposed Residential Target Air Compounds

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sample's Initials	ID Can	ID-Flow Controller	ANALYSIS										Sample Comments (i.e. PID)			
		Date	Date					Start Time	End Time	TO-14A	TO-15	TO-15 SIM	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS		DISS GASES CO2 ONLY	TO-4/TO-10	
00001-01	Rooftop FAN 1	3/23/07	3:00	3:30	E	PMH	0459	FC37												PID = 0.04 ppm	
	-02 Rooftop FAN 2						119	FC179													PID = 0.03 ppm
	-03 Rooftop FAN 3						519	FC108													PID = 4.06 ppm

Shaded Gray Areas For Lab Use Only

Container Type: CS

Relinquished By: [Signature]

Date/Time: 3/23/07 18:55

Received By: [Signature]

Date/Time: 3/23/07 18:55

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