APPENDIX C

Subslab Vapor Analytical Summary and Lab Report

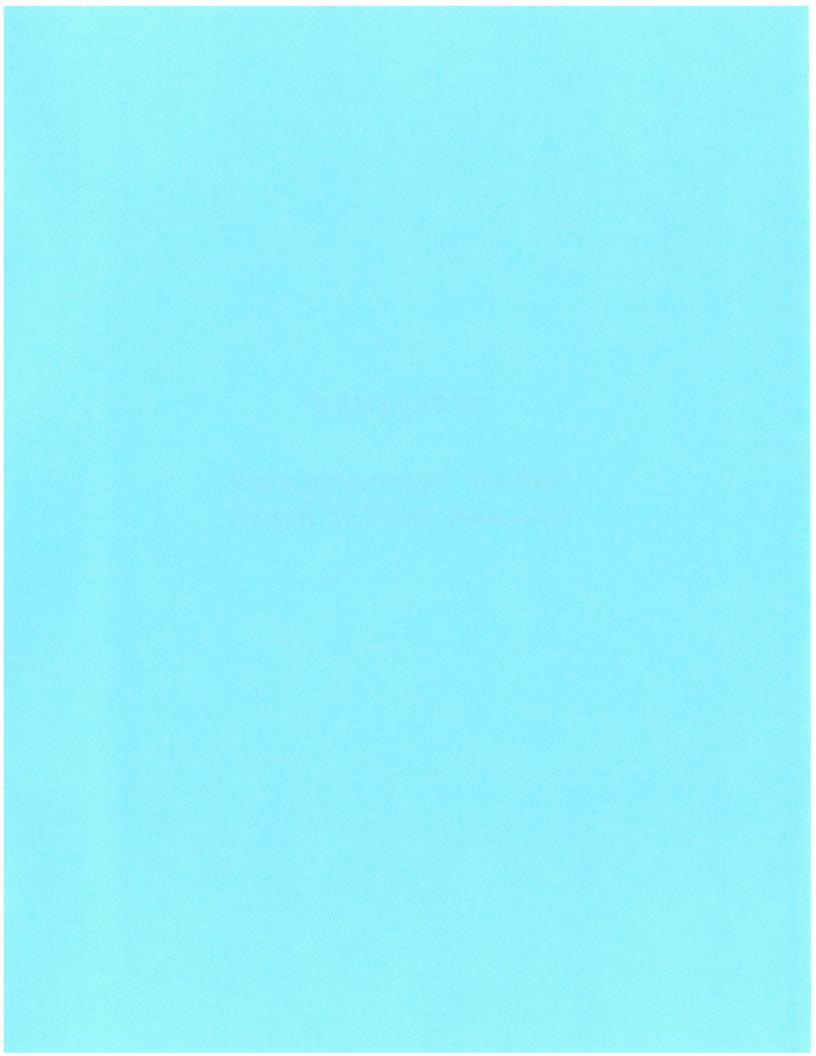


Table 2: Summary of Substab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2011

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Table 2: Summary of Substab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2011

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Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2011

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Table 2: Summary of Substab Air Sampling Data - Aivarez School Project - Volatije Organic Compounds February 2008 - April 2011

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Volatile Organic Compounds via TO-15	mrs-13-Dethorprogeno	j rchioresthane	bis distribution of the state o	nod-bronnethine

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Table 2: Summary of Subsiab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2011

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Page 8 of 12

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Z-cayl	0.440 0.547 0.140 0.	0.944 NS-NS-NS-NS-NS-NS-NS-NS-NS-NS-NS-NS-NS-N	2-446 R8 R8 R8 R8 2-446 2-446 R9	0.0300 0.0300 0.0150 0.
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Table 2: Summary of Subslab Air Sampling Data - Alvarez School Project - Volatile Organic Compounds February 2008 - April 2011

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Metals presented in musegames per cubic moter (uglim3).

All dates presented in musegames per cubic moter (uglim3).

All dates presented in musegames per cubic moter (uglim3).

NS not sempled:

- Sine Sineolie C. impound of Consorm per ATSDR Health Consultation. Discember 4, 2006.



ANALYTICAL REPORT

Lab Number:

L1105798

Client:

EA Engineering, Science and Technology

2374 Post Road

Suite 102

Warwick, RI 02886

ATTN:

Frank Postma (401) 736-3440

Phone:
Project Name:

ALVAREZ HIGH SCHOOL

Project Number:

14687.01

Report Date:

05/04/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

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

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

Project Name: ALVAREZ HIGH SCHOOL

Lab Number: L1105798 Project Number: Report Date: 05/04/11 14687.01

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1105798-01	MP-2	PROVIDENCE, RI	04/27/11 10:52
L1105798-02	MP-5	PROVIDENCE, RI	04/27/11 11:16
L1105798-03	MP-7	PROVIDENCE, RI	04/27/11 11:06
L1105798-04	MP-8	PROVIDENCE, RI	04/27/11 11:00
L1105798-05	IMP-1	PROVIDENCE, RI	04/27/11 09:33
L1105798-06	IMP-3	PROVIDENCE, RI	04/27/11 09:35

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

Lab Number:

L1105798

Report Date:

05/04/11

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. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of 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.
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Volatile Organics in Air (SIM)

The canister certification results are provided as an addendum.

L1105798-02 The presence of Chloromethane could not be determined in this sample due to non-target compounds interfering with the identification and quantification of this compound.

L1105798-02, -03, -04 and WG465447-5 Duplicate were re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis were performed only for the compound that exceeded the calibration range.

L1105798-03, -04, -06 and WG465447-5 Duplicate results for Chloromethane should be considered

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01 Lab Number:

L1105798

Report Date:

05/04/11

Case Narrative (continued)

estimated due to co-elution with a non-target peak.

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:

While M. Ohin Kathleen O'Brien

Title: Technical Director/Representative

Date: 05/04/11

AIR

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01 Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-01

Client ID:

MP-2

Sample Location:

Matrix:

PROVIDENCE, RI

Anaytical Method:

Soil_Vapor

Analytical Date:

48,TO-15-SIM 04/29/11 22:50

Analyst:

RY

Date Collected: 04/27/11 10:52 Date Received: 04/28/11

Field Prep:

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
Dichlorodifluoromethane	0.442	0.050	14	2.18	0.247	2		1
Chloromethane	0.597	0.500	34	1.23	1.03	-		1
Vinyl chloride	ND	0.020	34	ND	0.051	-		1
Chloroethane	ND	0.020	4.	ND	0.053			1
Acetone	44.8	2.00	**	106	4.75	-		1
Frichlorofluoromethane	0.200	0.050	-	1.12	0.281			1
Acrylonitrile	ND	0.500		ND	1.08	-		1
,1-Dichloroethene	ND	0.020	***	ND	0.079	-		1
Methylene chloride	ND	1.00	**	ND	3.47	-		1
rans-1,2-Dichloroethene	ND	0.020	**	ND	0.079			1
,1-Dichloroethane	ND	0.020		ND	0.081	-		1
Methyl tert butyl ether	ND	0.020	-77	ND	0.072	- 99		1
-Butanone	2.33	0.500	-	6.87	1.47	-		1
is-1,2-Dichloroethene	ND	0.020	-	ND	0.079	-		1
Chloroform	0.028	0.020	0-0	0.136	0.098	-		1
,2-Dichloroethane	ND	0.020	-	ND	0.081			1
,1,1-Trichloroethane	ND	0.020	÷	ND	0.109	-22		1
Benzene	ND	0.100	-	ND	0.319	-		1
Carbon tetrachloride	0.054	0.020		0.339	0.126	-		1
,2-Dichloropropane	ND	0.020	-	ND	0.092	34		1
Bromodichloromethane	ND	0.020	-	ND	0.134	-440		1
richloroethene	0.043	0.020	-	0.231	0.107	4		1
is-1,3-Dichloropropene	ND	0.020	4	ND	0.091			1
-Methyl-2-pentanone	ND	0.500	44	ND	2.05			1
rans-1,3-Dichloropropene	ND	0.020	120	ND	0.091			1

ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

05/04/11

Project Number: 14687.01

Report Date:

SAMPLE RESULTS

Lab ID:

L1105798-01

Client ID:

MP-2

Sample Location:

Project Name:

PROVIDENCE, RI

Date Collected:

04/27/11 10:52

Date Received:

04/28/11

Field Prep:

		ppbV			/2	.000		voi Specified
Parameter	Results	RL	MDL	Results	ug/m3 RL	MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM	•	1112	MDL	Results	NL	MDL	Qualifier	Contract
1,1,2-Trichloroethane	ND	0.020	1.4	ND	0.109	4		4
Toluene	0.222	0.050	-	0.836	0.188	_		1
Dibromochloromethane	ND	0.020	-	ND	0.170	_		1
1,2-Dibromoethane	ND	0.020		ND	0.154	-		1
Tetrachloroethene	0.212	0.020		1.44	0.136	-		1
1,1,1,2-Tetrachloroethane	ND	0.020		ND	0.137	5		4
Chlorobenzene	ND	0.020		ND	0.092	5		1
Ethylbenzene	0.056	0.020		0.243	0.087	()		1
p/m-Xylene	0.160	0.040	-	0.694	0.174	9		1
Bromoform	ND	0.020	-	ND	0.206	æ		1
Styrene	0.073	0.020	(0.311	0.085	B		1
1,1,2,2-Tetrachloroethane	ND	0.020	2-0	ND	0.137	-		4
o-Xylene	0.066	0.020		0.286	0.087	4		1
sopropylbenzene	ND	0.500	-	ND	2.46	-		1
1,3,5-Trimethybenzene	0.052	0.020	4	0.255	0.098	2		ì
1,2,4-Trimethylbenzene	0.172	0.020		0.845	0.098	-		1
1,3-Dichlorobenzene	ND	0.020		ND	0.120	-		1
1,4-Dichlorobenzene	0.164	0.020	4	0.985	0.120			1
ec-Butylbenzene	ND	0.500		ND	2.74			1
o-Isopropyltoluene	ND	0.500	124	ND	2.74			1
,2-Dichlorobenzene	ND	0.020	-	ND	0.120	-		1
-Butylbenzene	ND	0.500	4	ND	2.74	+		1

Project Name: ALVAREZ HIGH SCHOOL Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

SAMPLE RESULTS

MDL

Lab ID:

L1105798-01

Date Collected:

04/27/11 10:52

Client ID:

04/28/11

MP-2

Date Received:

Sample Location:

PROVIDENCE, RI

Field Prep:

Not Specified

ppbV

ug/m3

Dilution

Parameter

RL Results

Results

RL MDL Qualifier Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01 Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-02

Client ID:

MP-5

Sample Location:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method:

Analytical Date:

48,TO-15-SIM 04/29/11 23:28

Analyst:

RY

Date Collected:

04/27/11 11:16

Date Received:

04/28/11

Field Prep:

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM -	Mansfield Lab							
Dichlorodifluoromethane	0.460	0.050	.2.	2.27	0.247	-		1
Chloromethane	ND	0.500		ND	1.03			1
Vinyl chloride	ND	0.020	4	ND	0.051			1
Chloroethane	0.030	0.020	4	0.079	0.053			1.
Acetone	108	2.00		255	4.75	-	E	1
richlorofluoromethane	2.28	0.050		12.8	0.281	-		1
Acrylonitrile	ND	0.500		ND	1.08	-		1
1,1-Dichloroethene	ND	0.020	-	ND	0.079	-		1
Methylene chloride	ND	1.00	-	ND	3.47	i.		1
rans-1,2-Dichloroethene	ND	0.020	L	ND	0.079	ω,		1
,1-Dichloroethane	ND	0.020	1	ND	0.081	-		1
Methyl tert butyl ether	ND	0.020	2.	ND	0.072			1
-Butanone	58.0	0.500	-	171	1.47	-	E	1
is-1,2-Dichloroethene	ND	0.020	-	ND	0.079	4		1
Chloroform	0.038	0.020	4	0.185	0.098	-		1
,2-Dichloroethane	ND	0.020		ND	0.081	-		1
,1,1-Trichloroethane	ND	0.020		ND	0.109	-		1
Benzene	ND	0.100	-	ND	0.319	-		1
Carbon tetrachloride	0.054	0.020		0.339	0.126	-		1
,2-Dichloropropane	ND	0.020	-	ND	0.092			1
romodichloromethane	ND	0.020	024	ND	0.134	-		1
richloroethene	14.6	0.020	44	78.1	0.107			1
s-1,3-Dichloropropene	ND	0.020	4	ND	0.091			1
-Methyl-2-pentanone	ND	0.500		ND	2.05			1
ans-1,3-Dichloropropene	ND	0.020	-	ND	0.091	12		1



Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01 Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-02

Client ID:

MP-5

Sample Location:

PROVIDENCE, RI

Date Collected:

04/27/11 11:16

Date Received:

04/28/11

Field Prep:

Dilutior Factor
1
1
1
1
1
1
1
1
1
1
1
1
1
1
1
-1
1
1
1
1
1
1
1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number:

14687.01

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-02

Date Collected:

MDL

04/27/11 11:16

Client ID:

MP-5

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI

Field Prep:

Results

Not Specified

ppbV

ug/m3

RL

Dilution Factor

Parameter

Results RL MDL Qualifier

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	97		60-140

Project Name: ALVAREZ HIGH SCHOOL Lab Number:

L1105798

Project Number:

14687.01

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-02

Date Collected:

04/27/11 11:16

Client ID:

MP-5

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI Soil_Vapor

Field Prep:

Not Specified

Matrix:

Anaytical Method: Analytical Date:

48,TO-15-SIM 04/30/11 09:44

Analyst:

RY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by	SIM - Mansfield Lab							
Acetone	104	5.00	-	246	11.9			2.5
2-Butanone	54.1	1.25	-	159	3.68	-		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	101		60-140

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-03

Client ID:

MP-7

Sample Location:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method:

48,TO-15-SIM 04/30/11 00:06

Analytical Date: Analyst:

RY

Date Collected:

04/27/11 11:06

Date Received:

04/28/11

Field Prep:

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
Dichlorodifluoromethane	0.458	0.050	-	2.26	0.247	-		4

Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
Dichlorodifluoromethane	0.458	0.050	-	2.26	0.247			4
Chloromethane	ND	0.500	-	ND	1.03			1
Vinyl chloride	ND	0.020	-	ND	0.051	-		d
Chloroethane	0.031	0.020	-	0.082	0.053			11
Acetone	92.7	2.00		220	4.75	**	E	1
Trichlorofluoromethane	0.578	0.050		3.24	0.281			1
Acrylonitrile	ND	0.500		ND	1.08	-		1
1,1-Dichloroethene	ND	0.020	=	ND	0.079	-		1
Methylene chloride	ND	1.00	-	ND	3.47	-		1
rans-1,2-Dichloroethene	ND	0.020		ND	0.079	440		1
1,1-Dichloroethane	ND	0.020	· ·	ND	0.081			1
Methyl tert butyl ether	ND	0.020	0	ND	0.072	740		1
2-Butanone	3.82	0.500	77	11.3	1.47			1
cis-1,2-Dichloroethene	ND	0.020	_	ND	0.079	44		1
Chloroform	0.024	0.020	-	0.117	0.098	-		1
1,2-Dichloroethane	ND	0.020		ND	0.081	-		1
1,1,1-Trichloroethane	ND	0.020	-	ND	0.109	-		1
Benzene	ND	0.100	-	ND	0.319			1
Carbon tetrachloride	0.053	0.020	-	0.333	0.126	124		1
,2-Dichloropropane	ND	0.020	-	ND	0.092	-		1
Bromodichloromethane	ND	0.020		ND	0.134	ш.		1
richloroethene	0.166	0.020	-	0.891	0.107	-		1
is-1,3-Dichloropropene	ND	0.020	4	ND	0.091	-		1
-Methyl-2-pentanone	ND	0.500	-	ND	2.05	4		1
rans-1,3-Dichloropropene	ND	0.020	(**)	ND	0.091	-		1
esses and an over submaries and	1,12	0.020		ND	0.031	_		- 1



Project Name: ALVAREZ HIGH SCHOOL

14687.01

Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-03

Client ID:

Sample Location:

Project Number:

MP-7

PROVIDENCE, RI

Date Collected:

04/27/11 11:06

Date Received:

Field Prep:

04/28/11 Not Specified

		ppbV		ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
1,1,2-Trichloroethane	ND	0.020	144	ND	0.109			1
Toluene	0.333	0.050	-	1.25	0.188			1
Dibromochloromethane	ND	0.020		ND	0.170	-		1
,2-Dibromoethane	ND	0.020	-	ND	0.154	-		1
etrachloroethene	0.226	0.020	-	1.53	0.136	-		-1
,1,1,2-Tetrachloroethane	ND	0.020	-	ND	0.137	99		1
Chlorobenzene	ND	0.020	-	ND	0.092	-		1
Ethylbenzene	0.066	0.020	-	0.286	0.087	-		1
/m-Xylene	0.205	0.040	-	0.889	0.174	-		1
Bromoform	ND	0.020	7	ND	0.206			1
Styrene	0.086	0.020	-	0.366	0.085	-		1
,1,2,2-Tetrachloroethane	ND	0.020	-	ND	0.137	-		1
o-Xylene	0.085	0.020	-	0.369	0.087	-		1
sopropylbenzene	ND	0.500	-	ND	2.46	-		1
,3,5-Trimethybenzene	0.075	0.020	-	0.368	0.098			1
,2,4-Trimethylbenzene	0.253	0.020	-	1.24	0.098	***		1
,3-Dichlorobenzene	0.026	0.020	-	0.156	0.120	-		1
,4-Dichlorobenzene	0.161	0.020	=	0.967	0.120	+		1
sec-Butylbenzene	ND	0.500	-	ND	2.74	-		1
o-Isopropyltoluene	ND	0.500	-	ND	2.74	-		1
,2-Dichlorobenzene	ND	0.020	**	ND	0.120	9-		1
-Butylbenzene	ND	0.500	-	ND	2.74			1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-03

Client ID:

MP-7

Sample Location:

PROVIDENCE, RI

Date Collected:

04/27/11 11:06

Date Received:

04/28/11

Field Prep:

MDL

Not Specified

Parameter

ppbV Results RL

ug/m3 MDL Results RL

Qualifier

Dilution Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140

Project Name: ALVAREZ HIGH SCHOOL Lab Number:

L1105798

Project Number: 14687.01 Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-03 D

Date Collected:

04/27/11 11:06

Client ID:

MP-7

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method:

Field Prep:

Not Specified

Analytical Date:

48,TO-15-SIM 04/30/11 10:22

Analyst:

RY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by	SIM - Mansfield Lab							
Acetone	74.1	5.00	-	176	11.9			2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	108		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	100		60-140

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01 Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-04

Client ID:

MP-8

Sample Location:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method: Analytical Date:

48,TO-15-SIM 04/30/11 01:23

Analyst:

RY

Date Collected:

04/27/11 11:00

Date Received:

04/28/11

Field Prep:

	ppbV			ug/m3				Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - N	lansfield Lab							
Dichlorodifluoromethane	0.507	0.050	-	2.50	0.247			1
Chloromethane	0.571	0.500	·	1.18	1.03	2		1
Vinyl chloride	ND	0.020	-	ND	0.051			1
Chloroethane	ND	0.020		ND	0.053			1
Acetone	95.8	2.00	-	227	4.75	42	E	1
richlorofluoromethane	0.227	0.050		1.27	0.281	-		1
Acrylonitrile	ND	0.500		ND	1.08			1
,1-Dichloroethene	ND	0.020	200	ND	0.079	-		1
Methylene chloride	ND	1,00	ē.	ND	3.47			1
rans-1,2-Dichloroethene	ND	0.020	-	ND	0.079			1
,1-Dichloroethane	ND	0.020		ND	0.081			1
Methyl tert butyl ether	ND	0.020	-	ND	0.072	1944		1
-Butanone	5.18	0.500	-	15.3	1.47	146		1
is-1,2-Dichloroethene	ND	0.020		ND	0.079	-		1
chloroform	0.056	0.020		0.273	0.098			1
,2-Dichloroethane	ND	0.020	-	ND	0.081	5		1
,1,1-Trichloroethane	ND	0.020	-	ND	0.109	-		1
Benzene	0.111	0.100	(55 0	0.354	0.319	-		1
Carbon tetrachloride	0.058	0.020		0.364	0.126	-		1
,2-Dichloropropane	ND	0.020	140	ND	0.092	_		1
romodichloromethane	ND	0.020	-	ND	0.134	-		1
richloroethene	ND	0.020	-4	ND	0.107	-		1
is-1,3-Dichloropropene	ND	0.020		ND	0.091			1
-Methyl-2-pentanone	ND	0.500	*	ND	2.05	-		1
ans-1,3-Dichloropropene	ND	0.020		ND	0.091	-		1



Project Name: ALVAREZ HIGH SCHOOL

AREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-04

Client ID:

MP-8

Sample Location:

IVIP-8

PROVIDENCE, RI

Date Collected:

04/27/11 11:00

Date Received:

04/28/11

Field Prep:

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
1,1,2-Trichloroethane	ND	0.020	24	ND	0.109	-		1
Toluene	0.962	0.050	22	3.62	0.188	-		1
Dibromochloromethane	ND	0.020	-	ND	0.170	-		1
,2-Dibromoethane	ND	0.020	~	ND	0.154	-		1
etrachloroethene	0.230	0.020	اخذا	1.56	0.136			1
,1,1,2-Tetrachloroethane	ND	0.020	-	ND	0.137	**		1
Chlorobenzene	ND	0.020	-	ND	0.092	-		1
thylbenzene	0.089	0.020	-	0.386	0.087	-		1
/m-Xylene	0.266	0.040	-	1.15	0.174			1
fromoform	ND	0.020		ND	0.206			1
Styrene	0.094	0.020		0.400	0.085	++		1
,1,2,2-Tetrachloroethane	ND	0.020		ND	0.137			1
-Xylene	0.105	0.020	-	0.456	0.087			1
sopropylbenzene	ND	0.500	-	ND	2.46	-		1
,3,5-Trimethybenzene	0.067	0.020	-	0.329	0.098	**		1
,2,4-Trimethylbenzene	0.217	0.020	-	1.06	0.098	+		1
,3-Dichlorobenzene	ND	0.020	-	ND	0.120	+		1
,4-Dichlorobenzene	0.190	0.020	-	1.14	0.120	+		1
ec-Butylbenzene	ND	0.500) ae i	ND	2.74	-		1
-Isopropyltoluene	ND	0.500		ND	2.74	=		1
,2-Dichlorobenzene	ND	0.020		ND	0.120	-		1
-Butylbenzene	ND	0.500		ND	2.74	-		1

Qualifier

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number:

14687.01

Report Date:

05/04/11

SAMPLE RESULTS

MDL

Lab ID:

L1105798-04

Date Collected:

MDL

04/27/11 11:00

Client ID:

MP-8

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI

Field Prep:

ppbV

RL

Not Specified

Parameter Results ug/m3

RL

Results

Dilution Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	91		60-140

Project Name: ALVAREZ HIGH SCHOOL Lab Number:

L1105798

Project Number: 14687.01 Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-04 D Date Collected:

04/27/11 11:00

Client ID:

MP-8

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI

Soil_Vapor

Field Prep: Not Specified

Matrix: Anaytical Method:

48,TO-15-SIM

Analytical Date:

04/30/11 11:33

Analyst:

RY

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by	SIM - Mansfield Lab							
Acetone	88.2	5.00	-	209	11.9			2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	112		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	103		60-140

Lab Nu

Lab Number:

L1105798

Project Number: 14687.01

ALVAREZ HIGH SCHOOL

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-05

Client ID:

IMP-1

Sample Location:

Project Name:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method: Analytical Date: 48,TO-15-SIM 04/30/11 02:02

Analyst:

RY

Date Collected:

04/27/11 09:33

Date Received:

04/28/11

Field Prep:

	-	ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
Dichlorodifluoromethane	0.470	0.050	-	2.32	0.247	-		1
Chloromethane	ND	0.500	-	ND	1.03	-		1
Vinyl chloride	ND	0.020	-	ND	0.051			1
Chloroethane	ND	0.020	-	ND	0.053	÷		1
Acetone	7.51	2.00	-	17.8	4.75	-		1
Trichlorofluoromethane	0.209	0.050		1.17	0.281	_		1
Acrylonitrile	ND	0.500	<u>~</u>	ND	1.08	-		1
1,1-Dichloroethene	ND	0.020	-	ND	0.079	-		1
Methylene chloride	ND	1.00	-	ND	3.47	-		1
trans-1,2-Dichloroethene	ND	0.020		ND	0.079	-		4
1,1-Dichloroethane	ND	0.020		ND	0.081			1
Methyl tert butyl ether	ND	0.020		ND	0.072	+		1
2-Butanone	1.82	0.500	100	5.38	1.47	-		1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079	-		1
Chloroform	ND	0.020		ND	0.098	-		1
1,2-Dichloroethane	ND	0.020		ND	0.081	-		1
1,1,1-Trichloroethane	ND	0.020		ND	0.109	-		1
Benzene	ND	0.100	4	ND	0.319	4		1
Carbon tetrachloride	0,054	0.020	-	0.339	0.126	-		1
1,2-Dichloropropane	ND	0.020	-	ND	0.092	-		1
Bromodichloromethane	ND	0.020	4	ND	0.134	1		1
richloroethene	ND	0.020	=	ND	0.107	-		1
is-1,3-Dichloropropene	ND	0.020	~	ND	0.091	-		1
-Methyl-2-pentanone	ND	0.500	3	ND	2.05	-		1
rans-1,3-Dichloropropene	ND	0.020	_	ND	0.091	-		1

Project Name: ALVAREZ HIGH SCHOOL Lab Number:

L1105798 05/04/11

Project Number: 14687.01

Report Date:

SAMPLE RESULTS

Lab ID:

L1105798-05

Client ID:

IMP-1

Sample Location:

PROVIDENCE, RI

Date Collected:

04/27/11 09:33

Date Received:

04/28/11

Field Prep:

Parameter	ppbV			ug/m3				Dilution
	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM -	Mansfield Lab							
1,1,2-Trichloroethane	ND	0.020		ND	0.109	-		1
Toluene	0.552	0.050	eries.	2.08	0.188			1
Dibromochloromethane	ND	0.020	~	ND	0.170			1
,2-Dibromoethane	ND	0.020	2	ND	0.154	-		1
etrachloroethene	0.215	0.020	(44)	1.46	0.136	-		1
,1,1,2-Tetrachloroethane	ND	0.020	4	ND	0.137	(-)		1.
Chlorobenzene	ND	0.020	1441	ND	0.092	+		1
thylbenzene	0.084	0.020	144	0.364	0.087			1
/m-Xylene	0.251	0.040	*	1.09	0.174			1
romoform	ND	0.020	144	ND	0.206	1447		1.
Styrene	0.177	0.020	-	0.753	0.085	17.7		1
,1,2,2-Tetrachloroethane	ND	0.020	-	ND	0.137	999		1
o-Xylene	0.104	0.020	300	0.451	0.087	-		1
sopropylbenzene	ND	0.500	(***)	ND	2.46	-		1
,3,5-Trimethybenzene	0.122	0.020		0.599	0.098	-		1
,2,4-Trimethylbenzene	0.419	0.020	()	2.06	0.098			1
,3-Dichlorobenzene	ND	0.020	-	ND	0.120	-		1
,4-Dichlorobenzene	0.178	0.020		1.07	0,120	-		1
ec-Butylbenzene	ND	0.500	-	ND	2.74	-		1
-Isopropyltoluene	ND	0.500	**	ND	2.74			1
,2-Dichlorobenzene	ND	0.020	-	ND	0.120	-		1
-Butylbenzene	ND	0,500	-	ND	2.74	44		1

Qualifier

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

SAMPLE RESULTS

MDL

Lab ID:

L1105798-05

Date Collected:

MDL

04/27/11 09:33

Client ID:

IMP-1

Date Received:

04/28/11

Sample Location:

PROVIDENCE, RI

Field Prep:

ppbV

ug/m3

Not Specified

Parameter Results RL Results RL Dilution Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	106		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	100		60-140

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-06

Client ID:

IMP-3

Sample Location:

PROVIDENCE, RI

Matrix:

Soil_Vapor

Anaytical Method:

48,TO-15-SIM 04/30/11 02:40

Analytical Date:

Date Collected:

04/27/11 09:35

Date Received:

04/28/11

Field Prep:

Not Specified

Analyst:	RY

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM -	Mansfield Lab							
Dichlorodifluoromethane	0.467	0.050	162	2.31	0.247	-		1
Chloromethane	0.627	0.500	-	1.29	1.03	-		1
Vinyl chloride	ND	0.020	-	ND	0.051	-		1
Chloroethane	ND	0.020	-	ND	0.053			1
Acetone	24.5	2.00	÷	58.2	4.75	-		1
richlorofluoromethane	0.451	0.050	-	2.53	0.281	-		1
Acrylonitrile	ND	0.500	-	ND	1.08	-		1
,1-Dichloroethene	ND	0.020		ND	0.079	-		1
Methylene chloride	ND	1.00	440	ND	3.47	-		1
rans-1,2-Dichloroethene	ND	0.020	~*	ND	0.079	-		1
,1-Dichloroethane	ND	0.020	-	ND	0.081	-		1
Methyl tert butyl ether	ND	0.020		ND	0.072			1
2-Butanone	3.53	0.500	-	10.4	1.47	-		1
sis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
Chloroform	0.025	0.020	-	0.122	0.098			1
1,2-Dichloroethane	0.020	0.020	9	0.081	0.081			1
1,1,1-Trichloroethane	ND	0.020	-	ND	0.109	-		1
Benzene	0.100	0.100	9	0.319	0.319			1
Carbon tetrachloride	0.052	0.020	-	0.327	0.126	124		1
1,2-Dichloropropane	ND	0.020	-	ND	0.092	140		1
Bromodichloromethane	ND	0.020	, <u></u>	ND	0.134			1
Frichloroethene	0.290	0.020	4	1.56	0.107	144		1
cis-1,3-Dichloropropene	ND	0.020	è	ND	0.091	> 44)		1
1-Methyl-2-pentanone	0.818	0.500	-	3.35	2.05	-		1
trans-1,3-Dichloropropene	ND	0.020	4	ND	0.091	-		1

Project Name: ALVAREZ HIGH SCHOOL

14687.01

Lab Number:

L1105798

Report Date:

05/04/11

SAMPLE RESULTS

Lab ID:

L1105798-06

Client ID:

IMP-3

Sample Location:

Project Number:

PROVIDENCE, RI

Date Collected:

04/27/11 09:35

Date Received: Field Prep:

04/28/11 Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
1,1,2-Trichloroethane	ND	0.020	-	ND	0.109	+		1
Toluene	0.430	0.050		1.62	0.188			1
Dibromochloromethane	ND	0.020	-	ND	0.170			1
1,2-Dibromoethane	ND	0.020	-	ND	0.154	-		1
Tetrachloroethene	0.292	0.020	-	1.98	0.136	-		1
1,1,1,2-Tetrachloroethane	ND	0.020	4	ND	0.137	***		1
Chlorobenzene	ND	0.020	+	ND	0.092	-		1
Ethylbenzene	0.117	0.020	-	0.508	0.087	·		1
p/m-Xylene	0.333	0.040	44	1.44	0.174	4		1
Bromoform	ND	0.020	220	ND	0.206	0447		1
Styrene	0.176	0.020	(44)	0.749	0.085	3447		1
1,1,2,2-Tetrachloroethane	ND	0.020	-	ND	0.137	192		1
o-Xylene	0.127	0.020	(4)	0.551	0.087	4		1
Isopropylbenzene	ND	0.500	8	ND	2.46			1
1,3,5-Trimethybenzene	0.072	0.020	-	0.354	0.098			1
1,2,4-Trimethylbenzene	0.222	0.020	155	1.09	0.098	Ω.		1
1,3-Dichlorobenzene	ND	0.020	-	ND	0.120			1
1,4-Dichlorobenzene	0.206	0.020	=	1.24	0.120	22		1
sec-Butylbenzene	ND	0.500	-	ND	2.74	-		1
o-Isopropyltoluene	ND	0.500	-	ND	2.74	_		1
,2-Dichlorobenzene	ND	0.020	-	ND	0.120	+		1
n-Butylbenzene	ND	0.500	-	ND	2.74	-		1

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01 Report Date:

05/04/11

SAMPLE RESULTS

MDL

Lab ID:

L1105798-06

Client ID:

IMP-3

PROVIDENCE, RI

Date Collected:

04/27/11 09:35

Date Received:

04/28/11

Field Prep:

MDL

ppbV

Not Specified

Sample Location:

ug/m3

Dilution

Parameter

Results RL

RL Results

Qualifier

Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	111		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	103		60-140

Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

Report Date:

05/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM Analytical Date: 04/29/11 15:57

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - N	lansfield Lab f	or sample	(s): 01-0	6 Batch: W	G465447	-4		
Dichlorodifluoromethane	ND	0.050	-	ND	0.247			1
Chloromethane	ND	0.500	-	ND	1.03	(22)		1
Vinyl chloride	ND	0.020	<u></u>	ND	0.051			1
Chloroethane	ND	0.020	4	ND	0.053	144		1
Acetone	ND	2.00	4	ND	4.75	-		1
Trichlorofluoromethane	ND	0.050	4	ND	0.281	42		1
Acrylonitrile	ND	0.500		ND	1.08	192		1
1,1-Dichloroethene	ND	0.020	4	ND	0.079	-		1
Methylene chloride	ND	1.00	_	ND	3.47	,0.,		1
rans-1,2-Dichloroethene	ND	0.020	4	ND	0.079	2		1
1,1-Dichloroethane	ND	0.020	-	ND	0.081	4		1
Methyl tert butyl ether	ND	0.020	-	ND	0.072	-		1
2-Butanone	ND	0.500	4-	ND	1.47	-		1
cis-1,2-Dichloroethene	ND	0.020	-	ND	0.079	-		1
Chloroform	ND	0.020	4	ND	0.098	-		1
1,2-Dichloroethane	ND	0.020	14	ND	0.081			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109	-		1
Benzene	ND	0.100	8	ND	0.319			1
Carbon tetrachloride	ND	0.020	-	ND	0.126			1
,2-Dichloropropane	ND	0.020		ND	0.092	-		1
Bromodichloromethane	ND	0.020	4-5	ND	0.134	_		1
richloroethene	ND	0.020		ND	0.107			1
is-1,3-Dichloropropene	ND	0.020	**	ND	0.091	**		1
-Methyl-2-pentanone	ND	0.500		ND	2.05	-		1
ans-1,3-Dichloropropene	ND	0.020		ND	0.091	-		1



Project Name: ALVAREZ HIGH SCHOOL

Lab Number:

L1105798

Project Number: 14687.01

4687.01

Report Date: 05/04/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM Analytical Date: 04/29/11 15:57

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM -	Mansfield Lab f	or sample	(s): 01-06	Batch:	WG465447	-4		
1,1,2-Trichloroethane	ND	0.020	-	ND	0.109	**		1
Toluene	ND	0.050		ND	0.188			1
Dibromochloromethane	ND	0.020	***	ND	0.170			1
1,2-Dibromoethane	ND	0.020	-	ND	0.154	-		1
Tetrachloroethene	ND	0.020	-	ND	0.136	-		1
1,1,1,2-Tetrachloroethane	ND	0.020	-	ND	0.137	-		1
Chlorobenzene	ND	0.020	0	ND	0.092	-		1
Ethylbenzene	ND	0.020	7	ND	0.087	-		1
n/m-Xylene	ND	0.040	i e e	ND	0.174	-		1
Bromoform	ND	0.020	-	ND	0.206	-		1
Styrene	ND	0.020	-	ND	0.085	77		1
1,1,2,2-Tetrachloroethane	ND	0.020		ND	0.137	(75)		1
o-Xylene	ND	0.020		ND	0.087	75		1
sopropylbenzene	ND	0.500		ND	2.46	-		1
1,3,5-Trimethybenzene	ND	0.020	-	ND	0.098	74		1
1,2,4-Trimethylbenzene	ND	0.020	-	ND	0.098	-		1
,3-Dichlorobenzene	ND	0.020	-	ND	0.120	_		1
,4-Dichlorobenzene	ND	0.020	-	ND	0.120	-		1
sec-Butylbenzene	ND	0.500	+	ND	2.74	-		1
p-Isopropyltoluene	ND	0.500	-	ND	2.74			1
1,2-Dichlorobenzene	ND	0.020	-	ND	0.120			1
n-Butylbenzene	ND	0.500	()	ND	2.74			1



Lab Control Sample Analysis Batch Quality Control

L1105798 05/04/11 Lab Number: Report Date:

> 14687.01 Project Number:

ALVAREZ HIGH SCHOOL

Project Name:

LCSD rcs

Parameter	"Recovery Q	Qual %Rec	LCSD %Recovery Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06	b Associated samp		Batch: WG465447-3	17-3			
Dichlorodifluoromethane	102			70-130	1.7		25
Chloromethane	100			70-130	, i.e.		25
Vinyl chloride	110			70-130	1.7		25
Chloroethane	106			70-130			25
Acetone	92	,	lej.	70-130			25
Trichlorofluoromethane	100		d.	70-130			25
Acrylonitrile	103			70-130			25
1,1-Dichloroethene	100		2	70-130	1		25
Methylene chloride	26			70-130	1		25
trans-1,2-Dichloroethene	83	,		70-130	T		25
1,1-Dichloroethane	98			70-130			25
Methyl tert butyl ether	78			70-130	·		25
2-Butanone	79			70-130	- 5		25
cis-1,2-Dichloroethene	100			70-130	-1		25
Chloroform	106	•		70-130	4		25
1,2-Dichloroethane	86			70-130	16		25
1,1,1-Trichloroethane	06	•		70-130	7		25
Benzene	89			70-130	d-		25
Carbon tetrachloride	88			70-130	i		25
1,2-Dichloropropane	101			70-130	-1		25
Bromodichloromethane	92	1		70-130			25

Page 29 of 54

DIPHA

Lab Control Sample Analysis Batch Quality Control

ALVAREZ HIGH SCHOOL

14687.01

Project Number: Project Name:

Report Date:

L1105798

Lab Number:

05/04/11

Parameter	LCS %Recovery	Qual	, RR	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s)	5 Associated sail	mple(s)	01-06	Batch	Batch: WG465447-3				
Trichloroethene	100			Ţ		70-130	1-		25
cis-1,3-Dichloropropene	102			i		70-130			25
4-Methyl-2-pentanone	83			è		70-130			25
trans-1,3-Dichloropropene	85			= (70-130			25
1,1,2-Trichloroethane	103			r		70-130			25
Toluene	26			v		70-130	Đ		25
Dibromochloromethane	107			4		70-130	•		25
1,2-Dibromoethane	116			y		70-130			25
Tetrachloroethene	109			-1		70-130			25
1,1,1,2-Tetrachloroethane	111			i.		70-130	P		25
Chlorobenzene	112			i		70-130	i		25
Ethylbenzene	111			i		70-130	į.		25
p/m-Xylene	113			1		70-130	1		25
Вготогогт	107			i,		70-130			25
Styrene	118			, i.		70-130			25
1,1,2,2-Tetrachloroethane	116			d		70-130			25
o-Xylene	113			÷		70-130			25
Isopropylbenzene	115			i		70-130	•		25
1,3,5-Trimethylbenzene	116					70-130	Ť		25
1,2,4-Trimethylbenzene	120			į		70-130	i		25
1,3-Dichlorobenzene	125					70-130	1		25

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Lab Control Sample Analysis Batch Quality Control

ALVAREZ HIGH SCHOOL

14687.01

Project Number: Project Name:

L1105798 Lab Number:

Report Date:

05/04/11

	רכא		LCSD		"Recovery	
arameter	"Recovery	Qual	"Recovery	Onal	Limits	DDD

Parameter	"Recovery Qual	ual %Recovery Qual	Qual	Limits	RPD	Qual	RPD Qual RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab. Associated sample(s): 01-06 Batch: WG465447-3	sfield Lab Associated samp	le(s): 01-06 Batch:	WG465447-3				
1,4-Dichlorobenzene	123	,i.		70-130	ì		25
sec-Butylbenzene	118			70-130	ě		25
p-Isopropyltoluene	108			70-130			25
1,2-Dichlorobenzene	123	I		70-130	i		25
n-Butylbenzene	113	E.		70-130	œ		25

Lab Duplicate Analysis Batch Quality Control

ALVAREZ HIGH SCHOOL

14687.01

Project Number: Project Name:

Lab Number:

L1105798 05/04/11 Report Date:

Qual RPD Limits QC Sample L1105798-03 Client ID MP-7 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 RPD S 20 NC NC S S NC 0 Units \Qdd Vdqq Vdqq Vdqq Vdqq Vdqq Vdqqq Vdqq Vdqq Vdqq Vdqqq Vdqqq Vdqqq Vddq Vdqqq Vdqq Vddq Vadq Vddq QC Batch ID WG465447-5 **Duplicate Sample** 0.455 92.8E 0.570 0.030 0.025 0.053 3.87 9 S S S S S P 9 S 2 2 Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 Native Sample 92.7E 0.458 0.578 0.053 0.024 0.031 3.82 2 9 2 2 9 9 S 2 2 S P 呈 trans-1,2-Dichloroethene Dichlorodifluoromethane Trichlorofluoromethane cis-1,2-Dichloroethene Methyl tert butyl ether 1,1,1-Trichloroethane Carbon tetrachloride 1,1-Dichloroethane 1,1-Dichloroethene Methylene chloride 1,2-Dichloroethane Chloromethane Chloroethane Vinyl chloride Acrylonitrile 2-Butanone Chloroform Parameter Benzene Acetone



ALVAREZ HIGH SCHOOL Project Name:

Lab Duplicate Analysis Batch Quality Control

L1105798 05/04/11 Lab Number: Report Date: Project Number: 14687.01

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06	ssociated sample(s): 01-06	QC Batch ID WG465447-5	QC Sample:	L1105798-03 Client ID: MP-7	nt ID: MP-7
1,2-Dichloropropane	QN	QN	Vdqq	NO.	25
Bromodichloromethane	QV	QN	∧qdd	NC	25
Trichloroethene	0.166	0.164	Vdqq		25
cis-1,3-Dichloropropene	QV	QN	Vdqq	ON	25
4-Methyl-2-pentanone	QN	QN	Vdqq	ON	25
trans-1,3-Dichloropropene	QN	ND	Vdqq	OZ	25
1,1,2-Trichloroethane	QN	QN	Vdqq	OZ	25
Toluene	0.333	0.342	Vdqq	ю	25
Dibromochloromethane	Q	QN	Vdqq	NC	25
1,2-Dibromoethane	QN	QN	Vddq	NC	25
Tetrachloroethene	0.226	0.230	Vddq	2	25
1,1,1,2-Tetrachloroethane	QN	QV	Vdqq	NC	25
Chlorobenzene	QN	QN	Vddq	NC	25
Ethylbenzene	990.0	0.068	Vddq	8	25
p/m-Xylene	0.205	0.208	Vddq	F	25
Bromoform	QN	QN	Vddq	NC	25
Styrene	0.086	0.089	Vddq	ю	25
1,1,2,2-Tetrachloroethane	QN	QN	Vddq	NC	25
o-Xylene	0.085	0.086	Vdqq	_	25



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Batch Quality Control

ALVAREZ HIGH SCHOOL

14687.01

Project Number: Project Name:

L1105798 05/04/11 Lab Number: Report Date:

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7	Associated sample(s): 01-0	6 QC Batch ID WG465447-5	QC Sample	L1105798-03 Clien	t ID: MP-7
Isopropylbenzene	QN	QN	Vddq	NC	25
1,3,5-Trimethybenzene	0.075	0.076	Vdqq	Ŧ	25
1,2,4-Trimethylbenzene	0.253	0.260	Vddq	'n	25
1,3-Dichlorobenzene	0.026	0.028	Vddq	7	25
1,4-Dichlorobenzene	0.161	0.166	Vdqq	es.	25
sec-Butylbenzene	QN	QN	Vdqq	NC	25.
p-IsopropyItoluene	QN	QN	Vdqq	NC	25
1,2-Dichlorobenzene	QN	QN	Vdqq	NC	25
n-Butylbenzene	QN	QN	Vddq	NC	25

Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s) 01-06 QC Batch ID: WG465447-5 QC Sample: L1105798-03 Client ID: MP-7

Vddq 80.5 74.1 Acetone

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

Serial_No:05041114:18 Lab Number: L1105798

Report Date: 05/04/11

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	
L1105798-01	MP-2	0449	#90 SV		8	4	70	72	3
L1105798-01	MP-2	514	2.7L Can	L1105334	-29.5	-4.8	9	5	4
L1105798-02	MP-5	0090	#20 AMB				69	78	12
L1105798-02	MP-5	1717	2.7L Can	L1105334	-29.5	-1.2	-	-	-
L1105798-03	MP-7	0301	#90 SV		-1	27	66	70	6
L1105798-03	MP-7	482	2.7L Can	L1105334	-29.0	-5.7	÷.	·	÷
L1105798-04	MP-8	0224	#90 SV		-	-	72	77	7
_1105798-04	MP-8	529	2.7L Can	L1105334	-29.2	-1.4		-	2
_1105798-05	IMP-1	0429	#90 SV		-	-	72	80	11
_1105798-05	IMP-1	1729	2.7L Can	L1105334	-29.5	-0.5	\$ (-
1105798-06	IMP-3	0424	#90 SV		-	•	70	77	10
.1105798-06	IMP-3	474	2.7L Can	L1105334	-29.5	-1.2	-	2	3



Air Volatiles Can Certification

Project Name: BATCH CANISTER CERTIFICATION

CANISTER QC BAT

Lab Number:

L1105334

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

Project Number:

L1105334-01

Client ID:

CAN 369 SHELF 8

Sample Location:

Air

Matrix: Anaytical Method:

48,TO-15

Analytical Date:

04/21/11 16:10

Analyst:

BS

Date Collected: 04/19/11 00:00

Date Received:

04/19/11

Field

io ricoontou,	0-7/10/11
ld Prep:	Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air (Low Lev	vel) - Mansfield Lab)						
Chlorodifluoromethane	ND	0.200		ND	0.707	_		1
Propylene	ND	0.500	-	ND	0.860			1
Propane	ND	0.200	6	ND	0.606	-		1
Dichlorodifluoromethane	ND	0.200	-	ND	0.988	-		1
Chloromethane	ND	0.200	-	ND	0.413	-		1
Freon-114	ND	0.200		ND	1.40	-		1
Methanol	ND	5.00		ND	6.55			1
Vinyl chloride	ND	0.200	- A	ND	0.511			1
1,3-Butadiene	ND	0.200	340	ND	0.442	-		1
Butane	ND	0.200	-	ND	0.475			1
Bromomethane	ND	0.200	a.	ND	0.776	34		1
Chloroethane	ND	0.200	2	ND	0.527	-		1
Ethanol	ND	2.50	=	ND	4.71	99		1
Dichlorofluoromethane	ND	0.200	-	ND	0.841	u e e		1
/inyl bromide	ND	0.200	-	ND	0.874	(11)		1
Acrolein	ND	0.500	-	ND	1.14			1
Acetone	ND	1.00	~	ND	2.37	-		1
Acetonitrile	ND	0.200	-	ND	0.336	-		1
Frichlorofluoromethane	ND	0.200	-	ND	1.12	4		1
sopropanol	ND	0.500	-	ND	1.23	-		1
Acrylonitrile	ND	0.200	-	ND	0.434	4		1
Pentane	ND	0.200	-	ND	0.590			1
Ethyl ether	ND	0.200	-	ND	0,606	-4		1
,1-Dichloroethene	ND	0.200	***	ND	0.792	-		1
Fertiary butyl Alcohol	ND	0.500		ND	1.52	-		1



Project Name: BATCH CANISTER CERTIFICATION

Lab Number:

L1105334

Project Number: CANISTER QC BAT

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Client ID: Sample Location: CAN 369 SHELF 8

Date Received:

Date Collected:

04/19/11 00:00

Fig

04/19/11

Field Prep:

Not Specified

oumple Location.					, ioid	ricp.		voi opecined
	_	ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air (Low Le	evel) - Mansfield Lab) -						
Methylene chloride	ND	1.00	-	ND	3.47			1
3-Chloropropene	ND	0.200	-	ND	0.626	-		1
Carbon disulfide	ND	0.200	-	ND	0.622	-		4
Freon-113	ND	0.200	~	ND	1.53	=		4
trans-1,2-Dichloroethene	ND	0.200	-	ND	0.792	-		1
1,1-Dichloroethane	ND	0.200	5	ND	0.809	-		1
Methyl tert butyl ether	ND	0.200		ND	0.720	~		1
Vinyl acetate	ND	0.200	244	ND	0.704	+		1
2-Butanone	ND	0.200	244	ND	0.589	- 5		1
cis-1,2-Dichloroethene	ND	0.200	144	ND	0.792	-		1
Ethyl Acetate	ND	0.500	-	ND	1.80	8		1
Chloroform	ND	0.200	-	ND	0.976	- 8		1
Tetrahydrofuran	ND	0.200	(44)	ND	0.589	- 5		1
2,2-Dichloropropane	ND	0.200	44	ND	0.923	8		1
1,2-Dichloroethane	ND	0.200	144	ND	0.809	- 5		ì
n-Hexane	ND	0.200	144	ND	0.704	-		1
Diisopropyl ether	ND	0.200	44	ND	0.835	- 75		1
tert-Butyl Ethyl Ether	ND	0.200	144	ND	0.835	~		1
1,1,1-Trichloroethane	ND	0.200	_	ND	1.09	77		1
1,1-Dichloropropene	ND	0.200	(ND	0.907	-		1
Benzene	ND	0.200		ND	0.638	77		1.
Carbon tetrachloride	ND	0.200	-	ND	1.26	-		1.
Cyclohexane	ND	0.200	-	ND	0.688	75		1
tert-Amyl Methyl Ether	ND	0.200	-	ND	0.835	77		1
Dibromomethane	ND	0.200	8	ND	1.42	-		1
1,2-Dichloropropane	ND	0.200	-	ND	0.924	-		1
Bromodichloromethane	ND	0.200		ND	1.34	-		1
1,4-Dioxane	ND	0.200	-	ND	0.720	-		1.



Project Name: BATCH CANISTER CERTIFICATION

CANISTER QC BAT

Lab Number:

L1105334

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Client ID:

CAN 369 SHELF 8

Sample Location:

Project Number:

Date Collected: Date Received:

04/19/11 00:00

04/19/11

Field Prep: Not Specified

3.00	1	ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air (Low Le	vel) - Mansfield Lab)						
Trichloroethene	ND	0.200	-	ND	1.07			1
2,2,4-Trimethylpentane	ND	0.200	+	ND	0.934	-		ā
Heptane	ND	0.200	=	ND	0.819	-		1
2,4,4-trimethyl-1-pentene	ND	0.500	-	ND	2.29	-		1
is-1,3-Dichloropropene	ND	0.200	-	ND	0.907	-		1
-Methyl-2-pentanone	ND	0.200	(90)	ND	0.819	9		1
,4,4-trimethyl-2-pentene	ND	0.500		ND	2.29	-		1
ans-1,3-Dichloropropene	ND	0.200	÷	ND	0.907	92		1
,1,2-Trichloroethane	ND	0.200	-	ND	1.09	-		1
oluene	ND	0.200	4	ND	0.753			1
,3-Dichloropropane	ND	0.200		ND	0.923	-		1
Hexanone	ND	0.200	÷.	ND	0.819	-		1
ibromochloromethane	ND	0.200		ND	1.70	2		1
2-Dibromoethane	ND	0.200		ND	1.54	-		1
utyl acetate	ND	0.500	-	ND	2.37	-		1
ctane	ND	0.200	-	ND	0.934	-		1
etrachloroethene	ND	0.200	-	ND	1.36			1
1,1,2-Tetrachloroethane	ND	0.200		ND	1.37			1
hlorobenzene	ND	0.200	-	ND	0.920	_		1
thylbenzene	ND	0.200	-	ND	0.868	4		1
m-Xylene	ND	0.400	-	ND	1.74	+		1
romoform	ND	0.200	-	ND	2.06			1
yrene	ND	0.200		ND	0.851	-		1
1,2,2-Tetrachloroethane	ND	0.200	2	ND	1.37	4		1
Xylene	ND	0.200	4	ND	0.868			1
2,3-Trichloropropane	ND	0.200	_	ND	1.20	-		1
onane	ND	0.200		ND	1.05	*		1
opropylbenzene	ND	0.200	-	ND	0.982	-		1
				3/=	0.000			



Project Name: BATCH CANISTER CERTIFICATION Lab Number:

L1105334

Project Number: CANISTER QC BAT

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Client ID:

CAN 369 SHELF 8

Date Received:

04/19/11 00:00

Date Collected:

04/19/11

Sample Location:

Field Prep: Not Specified

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air (Low Lev	el) - Mansfield Lab	2- 1						
Bromobenzene	ND	0.200	-	ND	1.28	~		1
2-Chlorotoluene	ND	0.200		ND	1.03	-		1
n-Propylbenzene	ND	0.200	-	ND	0.982	-		1
4-Chlorotoluene	ND	0.200	()	ND	1.03	-		1
4-Ethyltoluene	ND	0.200		ND	0.982	-		1
1,3,5-Trimethybenzene	ND	0.200	-	ND	0.982	-		1
tert-Butylbenzene	ND	0.200	=	ND	1.10	-		1
1,2,4-Trimethylbenzene	ND	0.200	-	ND	0.982	+		1
Decane	ND	0.200	-	ND	1.16	~		1
Benzyl chloride	ND	0.200	(E)	ND	1.03			1
1,3-Dichlorobenzene	ND	0.200	*	ND	1.20	- 12		1
1,4-Dichlorobenzene	ND	0.200	-	ND	1.20	-		1
sec-Butylbenzene	ND	0.200	-	ND	1.10	ω		1
o-Isopropyltoluene	ND	0.200	-	ND	1.10	(42)		1
1,2-Dichlorobenzene	ND	0.200	-	ND	1.20	Ä		1
n-Butylbenzene	ND	0.200	+	ND	1.10	ų.		1
1,2-Dibromo-3-chloropropane	ND	0.200	÷e.	ND	1.93	-		1
Jndecane	ND	0.200	-	ND	1.28	4		1
Dodecane	ND	0.200		ND	1.39	-		1
1,2,4-Trichlorobenzene	ND	0.200		ND	1.48	-		1
Naphthalene	ND	0.200	Cess Control	ND	1.05	-		1
1,2,3-Trichlorobenzene	ND	0.200	-	ND	1.48	-		1
Hexachlorobutadiene	ND	0.200		ND	2.13	-		1

Qualifier

Project Name: BATCH CANISTER CERTIFICATION

Lab Number:

L1105334

Project Number:

CANISTER QC BAT

Report Date:

05/04/11

Air Canister Certification Results

MDL

Lab ID: Client ID: L1105334-01

CAN 369 SHELF 8

Date Collected:

MDL

04/19/11 00:00

Sample Location:

Date Received:

04/19/11

Field Prep:

ppbV

Not Specified

Parameter

Results RL

ug/m3 Results RL

Dilution Factor

Volatile Organics in Air (Low Level) - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	111		60-140
Bromochloromethane	104		60-140
chlorobenzene-d5	107		60-140

Project Name: BATCH CANISTER CERTIFICATION

Lab Number:

L1105334

Project Number: CAN

CANISTER QC BAT

Report Date: 05/04/11

Air Canister Certification Results

MDL

Results

ND

ND

ND

ND

ND

ND

0.098

0.081

0.109

0.319

0.126

0.092

ppbV

RL

Results

Lab ID:

L1105334-01

Client ID:

CAN 369 SHELF 8

Sample Location:

Matrix:

Air

Anaytical Method: Analytical Date: 48,TO-15-SIM 04/21/11 16:10

Analyst:

Parameter

BS

Date Collected:

MDL

Qualifier

04/19/11 00:00

Date Received:

04/19/11

Field Prep:

ug/m3

RL

Not Specified

Dilution Factor

Volatile Organics in Air by SIM -	Mansfield Lab						
Dichlorodifluoromethane	ND	0.050	بتد	ND	0.247		1
Chloromethane	ND	0.500	4	ND	1.03	(44 ,	4
Freon-114	ND	0.050	-	ND	0.349	-	1
Vinyl chloride	ND	0.020	-	ND	0.051	4	1
1,3-Butadiene	ND	0.020		ND	0.044	-	1
Bromomethane	ND	0.020		ND	0.078	Θ.	1
Chloroethane	ND	0.020	()	ND	0.053	Θ.	1
Acetone	ND	2.00	-	ND	4.75		+411
Trichlorofluoromethane	ND	0.050		ND	0.281	-	1
Acrylonitrile	ND	0.500	5	ND	1.08	-	1
1,1-Dichloroethene	ND	0.020	5	ND	0.079	-	4
Methylene chloride	ND	1.00		ND	3.47	,iii	1
Freon-113	ND	0.050	-	ND	0.383	æ	1
Halothane	ND	0.050	-	ND	0.403	A	1
trans-1,2-Dichloroethene	ND	0.020	-	ND	0.079	Æ	in the
1,1-Dichloroethane	ND	0.020	-	ND	0.081	-	3
Methyl tert butyl ether	ND	0.020	4	ND	0.072		1
2-Butanone	ND	0.500		ND	1.47	40	9
cis-1,2-Dichloroethene	ND	0.020	-	ND	0.079	H-	1

0.020

0.020

0.020

0.100

0.020

0.020

ND

ND

ND

ND

ND

ND



1

1

1

1

1

1

Chloroform

Benzene

1,2-Dichloroethane

1,1,1-Trichloroethane

Carbon tetrachloride

1,2-Dichloropropane

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Lab Number:

L1105334

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Client ID:

CAN 369 SHELF 8

Sample Location:

Date Collected:

04/19/11 00:00

Date Received:

04/19/11 pecified

	The second secon
Field Prep:	Not Sp

	ppbV		ug/m3				Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - Ma	ansfield Lab							
Bromodichloromethane	ND	0.020	122	ND	0.134	-		1
1,4-Dioxane	ND	0.100	-	ND	0.360	-		1
Trichloroethene	ND	0.020	44	ND	0.107			1
cis-1,3-Dichloropropene	ND	0.020	_	ND	0.091	-		1
4-Methyl-2-pentanone	ND	0.500	+	ND	2.05	(44)		1
rans-1,3-Dichloropropene	ND	0.020	o 4 ∞	ND	0.091			1
,1,2-Trichloroethane	ND	0.020	44	ND	0.109	-		14
oluene	ND	0.050	Table (ND	0.188	-		1
Dibromochloromethane	ND	0.020	200	ND	0.170	·		1
,2-Dibromoethane	ND	0.020	**	ND	0.154	-		1
etrachloroethene	ND	0.020	3	ND	0.136	-		1
,1,1,2-Tetrachloroethane	ND	0.020	-	ND	0.137			1
Chlorobenzene	ND	0.020	(ee	ND	0.092	-		1
thylbenzene	ND	0.020		ND	0.087			1
/m-Xylene	ND	0.040	()	ND	0.174			1
Bromoform	ND	0.020		ND	0.206			1
tyrene	ND	0.020		ND	0.085	o č ě:		1
,1,2,2-Tetrachloroethane	ND	0.020	-	ND	0.137	14		1
-Xylene	ND	0.020	-3	ND	0.087			1
sopropylbenzene	ND	0.500	-5	ND	2.46	4		1
3,5-Trimethybenzene	ND	0.020	T	ND	0.098	-		1
,2,4-Trimethylbenzene	ND	0.020	127	ND	0.098			1
,3-Dichlorobenzene	ND	0.020		ND	0.120	-		1
4-Dichlorobenzene	ND	0.020	-	ND	0.120	-		1
ec-Butylbenzene	ND	0.500	-	ND	2.74	-		1
Isopropyltoluene	ND	0.500	-	ND	2.74			1
,2-Dichlorobenzene	ND	0.020		ND	0.120	~		1
Butylbenzene	ND	0.500	44	ND	2.74	-		1



Project Name: BATCH CANISTER CERTIFICATION

Lab Number:

L1105334

Project Number:

CANISTER QC BAT

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Date Collected:

04/19/11 00:00

Client ID:

CAN 369 SHELF 8

Date Received:

04/19/11

Sample Location:

Field Prep:

Not Specified

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIN	1 - Mansfield Lab							
1,2,4-Trichlorobenzene	ND	0.050	-	ND	0.371			1
Naphthalene	ND	0.050	1966	ND	0.262	Service Control		1
1,2,3-Trichlorobenzene	ND	0.050	-	ND	0.371	-		1
Hexachlorobutadiene	ND	0.050	- 2	ND	0.533			4

Project Name:

BATCH CANISTER CERTIFICATION

Lab Number:

L1105334

Project Number:

CANISTER QC BAT

Report Date:

05/04/11

Air Canister Certification Results

Lab ID:

L1105334-01

Date Collected:

04/19/11 00:00

Client ID:

CAN 369 SHELF 8

Date Received:

MDL

04/19/11

Sample Location:

Field Prep:

Not Specified

ppbV

ug/m3

Dilution Qualifier

Parameter

Results RL MDL

RL Results

Factor

Volatile Organics in Air by SIM - Mansfield Lab

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	99		60-140

AIR Petro Can Certification

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT

Lab Number:

L1105334

05/04/11

R QC BAT Report Date:

AIR CAN CERTIFICATION RESULTS

Lab ID:

L1105334-01

Client ID:

CAN 369 SHELF 8 Not Specified

Sample Location: Matrix:

Air

Analytical Method:

96,APH

Analytical Date:

04/22/11 16:50

Analyst:

RY

Date Collected:

04/19/11 00:00

Date Received:

04/19/11

Field Prep:

Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbons in Air - I	Vlansfield Lab			-		
1,3-Butadiene	ND		ug/m3	2.0	-	1.1
Methyl tert butyl ether	ND		ug/m3	2.0	-	1
Benzene	ND		ug/m3	2.0		1
Toluene	ND		ug/m3	2.0		1
C5-C8 Aliphatics, Adjusted	ND		ug/m3	12		1
Ethylbenzene	ND		ug/m3	2.0	2.2	1
p/m-Xylene	ND		ug/m3	4.0		4
o-Xylene	ND		ug/m3	2.0		1
Naphthalene	ND		ug/m3	2.0	-	4
C9-C12 Aliphatics, Adjusted	ND		ug/m3	14		1
C9-C10 Aromatics Total	ND		ug/m3	10		4

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

Lab Number: L1105798 **Report Date:** 05/04/11

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

N/A Present/Intact

Container Info	ormation			Temp			
Container ID	Container Type	Cooler	рН	deg C	Pres	Seal	Analysis(*)
L1105798-01A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-02A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-03A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-04A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-05A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)
L1105798-06A	Canister - 2.7 Liter	N/A	NA		Y	Present/Intact	TO15-SIM(30)

Project Name: ALVAREZ HIGH SCHOOL

Project Number: 14687.01

Lab Number:

L1105798

Report Date:

05/04/11

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.

MDL Method Detection Limit: This value represents the level to which target analyte concentrations are reported as
estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL
includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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.

NI Not Ignitable.

RL Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when

Report Format: Data Usability Report

Project Name:ALVAREZ HIGH SCHOOLLab Number:L1105798Project Number:14687.01Report Date:05/04/11

Data Qualifiers

the sample concentrations are less than 5x the RL. (Metals only.)

R Analytical results are from sample re-analysis.

RE Analytical results are from sample re-extraction.

J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND Not detected at the reporting limit (RL) for the sample.

Report Format:

Data Usability Report

Project Name:

ALVAREZ HIGH SCHOOL

Project Number:

14687.01

Lab Number:

L1105798

Report Date:

05/04/11

REFERENCES

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 Analytical 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 Analytical.

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 March 23, 2011 - Mansfield Facility

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

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

Air & Emissions (EPA TO-15.)

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

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570B, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C.)

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

Air & Emissions (EPA TO-15.)

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

Non-Potable Water (Inorganic Parameters: EPA, 245.1, 245.7, 1631E, 180.1, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B. Organic Parameters: EPA 8081, 8082, 8260B, 8270C.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 3060A, 6020A, 7470A, 7471A, 9040B, 9045C, 7196A. Organic Parameters: SW-846 3540C, 3580, 3630C, 3640A, 3660B, 3665A, 5035, 8260B, 8270C, 8015D, 8082, 8081A.)

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

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, SM2320B, EPA 200.8, SM2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 7470A, 9040B, 6020, 9010B, 9014 Organic Parameters: SW-846 3510C, 3580A, 5030B, 5035L, 5035H, 3630C, 3640C, 3660B, 3665A, 8015B 8081A, 8082, 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 5030B, 5035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

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

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

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 9014, 9040B, 120.1, SM2510B, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8082, 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020, 7196A, 3060A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 1312, 3050B, 3580, 3570, 3051, 5030B.)

Air & Emissions (EPA TO-15.)

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

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

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

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Washington State Department of Ecology Certificate/Lab ID: C954. Non-Potable Water (Inorganic Parameters: SM2540D, 2510B, EPA 120.1, 180.1, 1631E, 245.7.)

Solid & Chemical Materials (Inorganic Parameters: EPA 9040, 9060, 6020, 7470, 7471, 7474. Organic Parameters: EPA 8081, 8082, 8015 Mod, 8270, 8260.)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 5030B, 8260B, 8270C, 8270C-ALK-PAH, 8082, 8081A, 8015D-SHC.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 5035A, 8260B, 8270C, 8270-ALK-PAH, 8082, 8081A, 8015D-SHC, 8015-DRO.

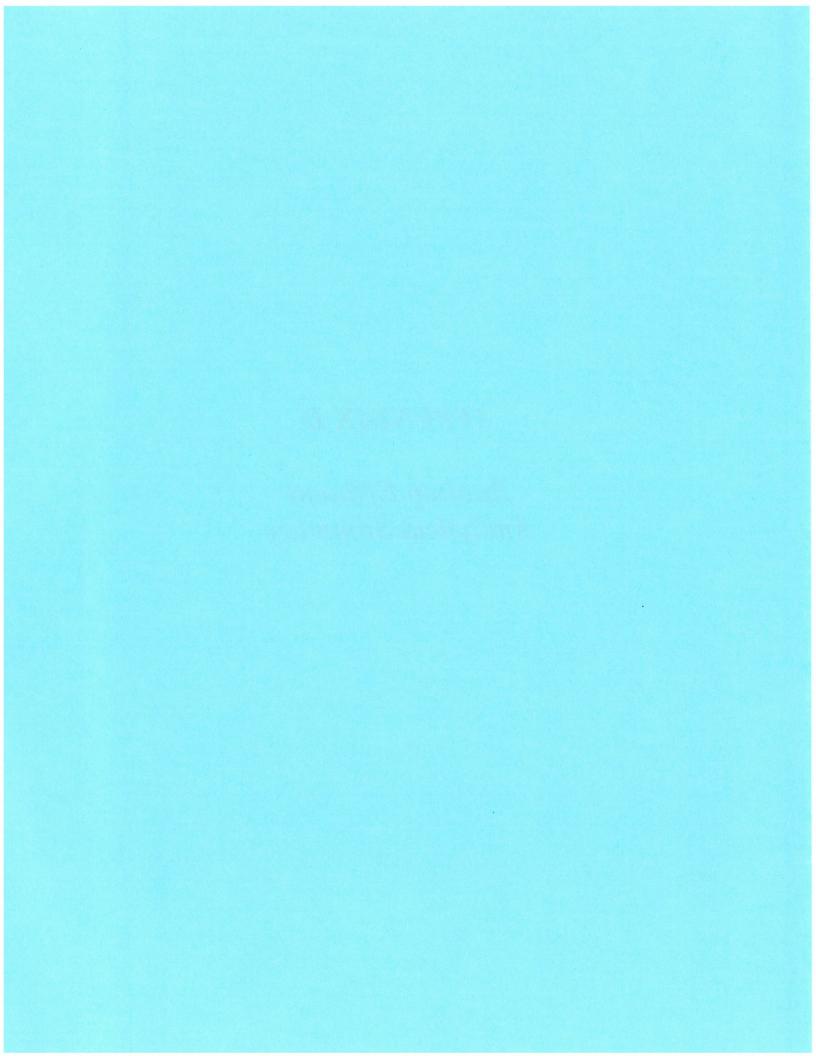
Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl. **TO-15**: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

APPENDIX D

Rooftop Effluent Analytical Summary



Alvarez School - Sub Slab Depressurization System Emissions Calculations Sample Date - 16 July 2010

Versella Octavia	ROOFTO	ROOF TOP FAN I (Measured sir flow = 108 cubic feet per minute)	air flow = 108 cu	hic feet per minute)	ROOFTOP		d air flow = 190	FAN 2 (Measured air flow = 190 cubic feet per minute)	ROOFTO	P FAN 3 (Measure	d air flow = 124 c	ROOFTOP FAN 3 (Measured air flow = 124 cubic feet per minute)	COMU	OISSING TALLY	CUMULATIVE EMISSIONS (3 fans combined)
Compounds	('m/gu)	(lhs/hour)	Daty Entresion	Tearly Emission	Concentration	Hourly Emission	Dally Emission	Yearly Emission	Concentration	Hourly Emission	Dolly Emission	Yearly Emission.	Hourly Emission	Daily Emission	Yearly Entission
. L. L. 2. Tetrachlorosthane	1 0137	90 30C 9	1 405 06	6 435 04	1000	(IDS ROUT)	(Ibs.day)	(bs/year)	(m/Zm)	(By bour)	(Ibs/day)	(Ibs/year)	(lbs/hour)	(Ibv(day)	(fbs/year)
.1.1-Trichloroethane	0.870	1 3015-06	3105.05	1 (45.03	0.137	3.74E-08	X.97E-07	3.27E-04	U.137 U	S 56E-08	1.33E-06	4.87E-04	1.5515.07	3.7215-06	1.36E-03
1 7 2-Tetrachlomorphism		11 6 20C A	1 101:02	700000	+5.1	4,205-0	1.01E-05	3.68E-03	0.949	3.851.07	9.24E-06	3.37E-03	2,1015-06	5.05E-05	1 84F-0"
1 7. Tricklonsonhane			1.4915-00	3.438-04		1	8.97107	3,275,04	U 751.0	5.565-08	1.335-06	4,87E-04	1,55E-07	3.7215-06	207392
1.Dehlorethan	1		1 105 07	4,325,04	0.109		7,13E-07	2.60E-04	0.109	4.42E-08	1.06E-06	3.87E-04	1,238-07	2.961:-06	I OPE-03
1-Dichloroshon	0.070	2 500.00	O FOT WA	4,326-04	0.0881	2,21E-08	5.30E-07	1.936-04	U 180.0		7.88E-07	2.88E-04	1.0415-07	2.50E-06	9 1415-04
14-Trincibylbenzene	2,660	0000000	3 900 00	5.126-04 FORT 02	0.00	7.15E-08	5.17E-07	1.89E-04	0.079	3.20E-08	7.696-07	2,81E-04	8.93E-08	2.145.06	7.8315.04
"This was the same		(1) CONE 00	2.0912-02	1,0515-02	2,63	7.17E-07	1.72E-05	6.2815-03	1.96	7.95E-07	1.91E-05	6.96E-03	2,725-06	\$0-3C\$ 9	2 381: (1)
2.Dichlosobon seno	1		075-07	6.115-04	0 75.0	4,201-08	1.0115-06	3.68E-04	0.154 U	6.25E-08	1.50E-06	5.47E-04	1.74E-07	4 185-06	1 531: 03
2 Diehlemethen	0.1.50	2,421508	90-305	4.765-04	0.120	3,275-08	7.8515-07	2,875-04	0,120 U	4.8715-08	1.17E-06	4,26E-04	1.36E-07	STATE S	1 101.03
Dictionochane		1	90-181	4.3215-04	0.081	2,215-08	5.30E-07	1.93E-04	U 180'0	3.29E-08	7.88E-07	2.88E-04	1.04E-07	2 501-06	0.115.04
Dichioropropane		11 4 16E-08	1.00E-06	3.65E-04	0.092 U	1.516-08	6.02E-07	2,20E-04	1 260'0	3.735-08	8.96E-07	1775-04	1.046.07	South C	0 111 01
3.5-I mirethyticazene	0,727	3.29E-07	2.90E-06	2.88E-03	0.673	1.845-07	4.40E-06	1.61E-03	0.555	2.25E-07	\$ 40E-06	1 975-03	7.385.07	0 1750.00	7,1115-04
3-Dichloroben ene	0.120	U 5.43E-08	1.30E-06	4.76E-04	0.120	3,275-08	7.8515-07	2.87E-04	0.120	Ĺ	1.17F-06	4.76F-04	1 367.07	3 361:46	0.4015453
4-Dichloroberrene	1.180	5.345-07	1,28E-05	4.6815-03	1,32	3.60E-07	8.64E-06	3.15E-03	0.731	2.975-07	707E-016	E0-395 c	105.00	2000000	1 1915-03
2-Isutanone	10,000	4.5315-06	1.09E-04	3.975-02	4 99 U	1.36E-06	3.27E-05	1.19E-02	1.21	6 945-07	1 KKE-DS	50.5180.5	200-0211	1 507.04	0-9400
4-Methyl-2-pentanone		U 9.28E-07	2.2315.05	8.13E-03	3.05	5.5915-07	1.34E-05	4,90E-03	2.05	8 315 17	200E-05	7 18E 03	0000000	1,365-19	5.7715-02
Acetone	000.59	2.81E-05	6.74E-04	2.46E-01	41.6	1.13E-05	2.72E-04	9.94E-02	151	90':161 9	1 475.04	\$ 375.02	4 6617 166	3.3012-03	The steady
Acrytonitrile	1.080	U 4.89E-07	1.17E-05	4.28E-03	1.08	2.94E-07	7,07E-06	2.58E-03	1 08	4 3817-07	1050.05	3 946 03	CO-CICC.	1,095,00	3.99E401
Benzene	0.370	1.6715-07	4.02E-06	1.476-03	0.319	8.70E-08	2.09E-06	7.62E-04	0.319 11		31115.06	1135.03	2 0412.07	031000	1.0715-02
Bramodiehleromethane			1.46E-06	5.31E-04	0.134 (1	3.65E-08	8.77E-07	3.20E-04	0.134	5.4415-08	1.30E-06	4.765-04	TO 3153 1	3 641: 06	COSTOCAL CONTRACT
Bromoform		U 9.33E-08	2.24E-06	8.17F-04	0.20K U	5.62E-08	1,356-06	4.92E-04	0.206 U	8.365-08	2.01E-06	7.3215-0-4	2.33E-07	\$ 505.06	7.045.07
arbon tetractionde	0.597	2.7015.07	6.49E-06	2.376-03	0,459	1.25E-07	3.00E-06	1.1015-03	0,471	1.916.07	4.58E-06	1.67E-03	5.86E-07	1415-05	CORP. S
. Horobenzene	0.092	4.16E-08	1.00E-06	3.65E-04	0.092 U	2,516-08	6.02E-07	2.205-04	0,092	3.73E-08	8.96E-07	3.27E-04	1.045.07	2.50E-06	0.1115.04
, morochane	0.000	30508	7.17E-07	2.62E-04	0.15	4.09E-08	9.82E-07	3.58E-04	U 550.0	2,15E-08	5.163-07	1.8815-04	9,2315-08	2.21E-06	8 DRF-04
This control beauti	CNCO	10-01-07	4.181:-06	1.558-403	0.454	1.24E-07	2.97E-06	1.086-03	0.532	2.16E-07	5.18E-06	1 89E-03	S.14E-07	1,2315-05	4.50E-03
Christians	1,310	3.975-01	1.425.05	5.305-03	103	7818-07	6.74E-06	2.46E-03	1.03 U		1.00E-05	3.66E-03	1.295-06	3.108-05	1.1315.02
is 1 3-Dehloroproper	0.001	110000	0.00000	3,505,04	0 6/00	1	5.175-07	1.895-04	0.083	3,37E-08	8.08E-07	2.95E-04	1.15E-07	2.7515-06	1.00E-03
Dibromochloromethane		U - 70E-08	1.851-06	6.745.04		3 6.15.00	1,000-07	11 /E-04	0.091	3.69E-08	8.86E-07	3.23E-04	1.03E-07	2.4715-06	105150.6
Dichlorodiffuoromothano			3 171.05	1 626.03		1	00000	4.005-04	0.17	80-306.9	1.65E-06	6.04E-04	1.925-07	4,616-06	1.6815-03
Hiviben ene	0.547	7.481-07	\$ 9477.06	203171.0	0.435	0.715-07	1.012-05	5,8815-03	2.25	9.13E-07	2.19E-05	7.99E-03	3.32E-06	7.97E-05	2,9115-02
Sopropylbenzene	2.460	1115-06	\$0.369 ¢	0.26E.03	7.46	6 715 07	1.785-00	1.025-03	101	4.21E-07	1,0115-05	3.70E-03	7.8515-07	1.8815-05	6.88E-03
Methyl tert hutyl ether		11 3 76F-DR	787F-07	7.861.04	0.020	1	1.612-05	5.8815-03	0 946		2,3915-05	8.746-03	2.78E-06	6.6815-05	2.4415-02
Methylene chloride		U 8.28E-06	1 995-04	:0-49.L	L	1	1115.04	4 0 4 0 0 0	7/00	1.9.E-08	7010-07	2.56E-04	8.14E-08	1.95E-06	7.135-04
n-Butylbertzene	3.74() (U 1.34E-06	2,986-05	1.0915-0.2		L	1 795-05	6 545 03	1.0		1.7.E.04	70-36-0	2.0115-05	4.82E-04	1.26E-01
o-Xylenc	869.0	3.16E-07	7.58E-06	2.77E-03	0.586	1 60 E-07	3835.06	1.405.03	L		4 COT 05	9,740-03	3.1015-06	7.44E-05	2.71E-02
-Isopropylloluene	3,740	U 1.24E-06	2.98E-05	1.09E-02	11 116	7 4715.07	1 795 05	6 545 03	274	1,950-07	4.6925-06	1.715-03	6.7115-07	1.61E-05	5.8815-03
p/m-Xylene	1,640	7.42E-07	1,78E-05	6.50E-03	1.5	4.09E-07	9.821-06	3.5815-03	1110	8 SAE: 07	202205	2 500 03	301E-06	7,446.05	2,716-02
see-Butylbenzene	2,740	1.24E-06	2.98E-05	1.09E-02	2,74		1.795-05	6 54E-03	174 11	1115.06	2676.05	0.745.03	2 100000	4.825-05	1.66-02
Styrene	0.332	1.50E-07	3.615-06	1,325.03	0.789	7.88E-08	1.8915-06	6,90E-04	860.0	3.97E-08	9 54F-07	3 48F-04	3 6011-07	C 45T: 02	20-912-0
etrachloroethene	34,800	1.58E-05	3.785-04	1.38E-01	16.5	4.50E-06	1.08E-04	3.94E-02	80.2	3.25E-05	7.81E-04	2.85F-01	5 78E-05	1 376.03	4 6 26 03
Oluene	0.810	8.19E-07	1.97E-05	7.18E-03	1,13	3.08E-07	7.39E-06	2,705.03	1.42	5.76E-07	1,38E-05	5.05E-03	1,705.06	4.0915-05	1.408-07
rans-1,-13rchroroemene	0.00	3.5815-08	8.5815-07	3.135-04	U 620.0	2.15E-08	5.17E-07	1.895-04	U 670.0	3.20E-08	7.69E-07	2.81E-04	8.93E-08	2.145-06	FO-ILS L
Trieblometres	1600	4.125-08	9.895-07	3.615-04	D 1600	2.48E-08	5.96E-07	2.175-04	0.091	3.69E-08	8.86E-07	3.23E-04	1.03E-07	2.47E-06	9.02E-04
Frichloroff committee	TO ANY	2 5557 45	0 575 0	0-31-6-6	90.0	247E-05	5.93E-04	2.166-01	32	1.305-05	3.12E-04	1.14E-01	8.84E-05	2.128-03	10/11/2
Vinyl chloride	1 1500	1 316.08	5 54E.07	3.115-01	131	-	8.5/15-04	3.1315-01	14.3	5.80E-06	1.39E-04	5.08E-02	7,705-05	1.856-03	6.75E-01
Total VOC's	1415417	b.l.a	Mod Amplicable	1 345.00	200	1.395-08	5.540-07	22B-04	0.051 U	2.076-08	4.96E-07	1.81E-04	5,775-08	1.3815-06	5.05E+04
			TACL AND SHORTING	10.24	3.32E-02		Not Applicable	2.076+00	1.91E+02	Not Applicable	Not Applicable	7.75E-01.	Not Applicable	Not Applicable	2,8615400
RIDEM Air Pallution Control Permit	Control Permit	S	50	20,000 (Individual VOCs) 50,000 (Total				20,000 (Individual VOCs)		ı		20,000 (Individual VOCs)	I		20.000 (Individual VOCs)
Commendation of the Commen	Tana Amai	T A	Ton	finan.	Not Applicable	10	100	Studio (Total VOCs)	Not Applicable	10	100	50,000 (Total VOCs)	10	100	50,000 (Total VOCs)

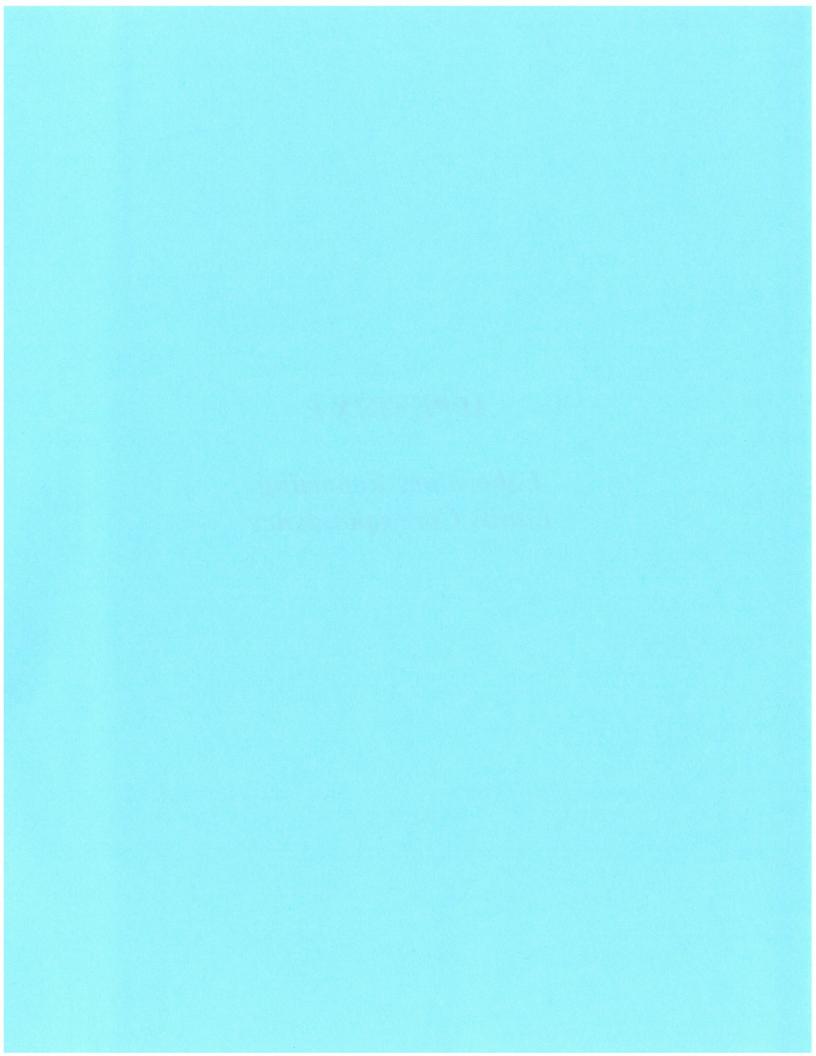
U anticiates that chemical was not detected by the laboratory. To be conservative, the reporting limit chown in the concentration column was used in the emissions calculations. Hearth Fanisions (the chour) = VGC concentration (up m³) x measured flow rate (cfm) x 0.03832 m³d³ x 60 min/hearty 0.001 inpute x 0.001 pring = 0.0022 b/c.

Yearty Emissions (the year) = Daily Emissions 3.5 days year.

* RIDFM Air Follution Control Regulation No. 9 [August 197]. Amendot April 2004].

APPENDIX E

Laboratory Reporting Limits Correspondence





May 4, 2011

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

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

Re: TO15 SIM Reporting Limits

Dear Ron,

As we communicated prior to the TO-15 SIM analyses completed for the Alvarez High School air samples collected on April 27, 2011; the SIM Reporting Limits achieved for the following compounds are the lowest that we can currently achieve at Alpha. Please note that these reporting limits are above the Draft Proposed CT RSR (Residential) Criteria for these compounds:

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

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

Best Regards,

Katie O'Brien