Westport Middle School

RE: air sample comparison
Robert May to: Kimberly Tisa

09/20/2011 08:52 AM

From: Robert May <RMay@fando.com>
To: Kimberly Tisa/R1/USEPA/US@EPA

2 attachments

Con-test_ab_Result_Room242.PDF Alpha_Lab _Results_Room242.PDF

Attached are the two lab results as requested. Note you should have full Con-test report for this day but I have included the single page Room specific result. I am also providing the full Alpha report for your information. Any questions let me know. To find the correct full report for Con-test the work order number will help to identify. Samples were collected on 8-31 and results of report received on 9-6 for Con-test.

Robert L. May, Jr.
Vice President
Fuss & O'Neill EnviroScience, LLC | 50 Redfield Street, Suite 100 | Boston, MA 02122
617.282.4675 x4701 | rmay@fando.com | cell: 617.778.3768 | www.fando.com

-----Original Message-----
From: Tisa.Kimberly@epamail.epa.gov [mailto:Tisa.Kimberly@epamail.epa.gov]
Sent: Tuesday, September 20, 2011 8:39 AM
To: Robert May
Subject: Re: air sample comparison

Yes, I would appreciate the results. Thanks for the info.

Kimberly N. Tisa
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

Phone: 617.918.1527
E-Fax: 617.918.0527

tisa.kimberly@epa.gov

From: Robert May <RMay@fando.com>
To: Kimberly Tisa/R1/USEPA/US@EPA
Date: 09/20/2011 07:48 AM
Subject: air sample comparison

Kim,

We collected a side by side ample in Room 242 on August 31, 2011 and send to both Alpha Analytical and Con-test

Alpha Result 240 ng/cartridge (they did not calculate volume which was over 1,000 liters so result will come down slightly)
Con-test Result 210 ng/m3.

The results are virtually the same from both labs so we appear to have good data even though a limited comparison. Let me know if you want the actual report for each sample.

(Embedded image
moved to file:
pic09990.gif)

Robert L. May, Jr.
Vice President

Fuss & O'Neill EnviroScience, LLC | 50 Redfield Street, Suite 100 | Boston, MA 02122
617.282.4675 x4701 | rmay@fando.com | cell: 617.778.3768 | www.fando.com
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYTICAL RESULTS

Project Location: Westport Middle School
Date Received: 9/1/2011
Field Sample #: 831-JAC-33
Sample ID: 1110034-13
Sample Matrix: Air
Sampled: 8/31/2011 00:00

Sample Description/Location: Room 242
Sub Description/Location:

Flow Controller ID:
Sample Type:
Air Volume L: 1090.6

Work Order: 1110034

TO-10A/EPA 680 Modified

Analyte	Total µg Results	Total µg RL	Flag	ug/m3 Results	ug/m3 RL	Dilution	Date/Time Analyzed	Analyst
Monochlorobiphenyls	ND	0.0020		ND	0.0018	1	9/4/11 8:07	TPH
Dichlorobiphenyls	ND	0.0020		ND	0.0018	1	9/4/11 8:07	TPH
Trichlorobiphenyls	0.0023	0.0020		0.0021	0.0018	1	9/4/11 8:07	TPH
Tetrachlorobiphenyls	0.074	0.0040		0.068	0.0037	1	9/4/11 8:07	TPH
Pentachlorobiphenyls	0.13	0.0040		0.12	0.0037	1	9/4/11 8:07	TPH
Hexachlorobiphenyls	0.024	0.0040		0.022	0.0037	1	9/4/11 8:07	TPH
Heptachlorobiphenyls	ND	0.0060		ND	0.0055	1	9/4/11 8:07	TPH
Octachlorobiphenyls	ND	0.0060		ND	0.0055	1	9/4/11 8:07	TPH
Nonachlorobiphenyls	ND	0.010		ND	0.0092	1	9/4/11 8:07	TPH
Decachlorobiphenyl	ND	0.010		ND	0.0092	1	9/4/11 8:07	TPH
Total Polychlorinated biphenyls	0.23			0.21		1	9/4/11 8:07	TPH

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	78.3	50-125	9/4/11 8:07

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L1113566
Client:	Fuss & O'Neill 50 Redfield Street Suite 100 Boston, MA 02122
ATTN:	Robert May
Phone:	(617) 282-4675
Project Name:	WESTPORT MIDDLE SCHOOL
Project Number:	20080788.A6E
Report Date:	09/06/11

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: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1113566-01	831-JAC-A33	Not Specified	08/31/11 22:58
L1113566-02	831-JAC-A38	Not Specified	

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

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.

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: Kathleen M. O'Brien Kathleen O'Brien

Title: Technical Director/Representative

Date: 09/06/11

ORGANICS

SEMIVOLATILES

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

SAMPLE RESULTS

Lab ID:	L1113566-01	Date Collected:	08/31/11 22:58
Client ID:	831-JAC-A33	Date Received:	09/01/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air Cartridge	Extraction Method:	EPA 3540C
Analytical Method:	105,680/8270C-SIM(M)	Extraction Date:	09/01/11 11:50
Analytical Date:	09/02/11 14:11		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM - Mansfield Lab						
Monochlorobiphenyls	ND		ng/cart	5.00	--	1
Dichlorobiphenyls	6.52		ng/cart	5.00	--	1
Trichlorobiphenyls	17.3		ng/cart	5.00	--	1
Tetrachlorobiphenyls	86.2		ng/cart	5.00	--	1
Pentachlorobiphenyls	111		ng/cart	5.00	--	1
Hexachlorobiphenyls	19.4		ng/cart	5.00	--	1
Heptachlorobiphenyls	ND		ng/cart	5.00	--	1
Octachlorobiphenyls	ND		ng/cart	5.00	--	1
Nonachlorobiphenyls	ND		ng/cart	5.00	--	1
Decachlorobiphenyl	ND		ng/cart	5.00	--	1
Total Homologs	240		ng/cart	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	82		50-125
Cl8-BZ#202-C13	78		50-125

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

SAMPLE RESULTS

Lab ID:	L1113566-02	Date Collected:	
Client ID:	831-JAC-A38	Date Received:	09/01/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Air Cartridge	Extraction Method:	EPA 3540C
Analytical Method:	105,680/8270C-SIM(M)	Extraction Date:	09/01/11 11:50
Analytical Date:	09/02/11 15:07		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
PCB Homologs by GC/MS-SIM - Mansfield Lab						
Monochlorobiphenyls	ND		ng/cart	5.00	--	1
Dichlorobiphenyls	ND		ng/cart	5.00	--	1
Trichlorobiphenyls	ND		ng/cart	5.00	--	1
Tetrachlorobiphenyls	ND		ng/cart	5.00	--	1
Pentachlorobiphenyls	ND		ng/cart	5.00	--	1
Hexachlorobiphenyls	ND		ng/cart	5.00	--	1
Heptachlorobiphenyls	ND		ng/cart	5.00	--	1
Octachlorobiphenyls	ND		ng/cart	5.00	--	1
Nonachlorobiphenyls	ND		ng/cart	5.00	--	1
Decachlorobiphenyl	ND		ng/cart	5.00	--	1
Total Homologs	ND		ng/cart	5.00	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	89		50-125
Cl8-BZ#202-C13	83		50-125

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 105,680/8270C-SIM(M)
Analytical Date: 09/02/11 12:18
Analyst: JB

Extraction Method: EPA 3540C
Extraction Date: 09/01/11 11:50

Parameter	Result	Qualifier	Units	RL	MDL
PCB Homologs by GC/MS-SIM - Mansfield Lab for sample(s): 01-02 Batch: WG487482-1					
Monochlorobiphenyls	ND		ng/cart	5.00	--
Dichlorobiphenyls	ND		ng/cart	5.00	--
Trichlorobiphenyls	ND		ng/cart	5.00	--
Tetrachlorobiphenyls	ND		ng/cart	5.00	--
Pentachlorobiphenyls	ND		ng/cart	5.00	--
Hexachlorobiphenyls	ND		ng/cart	5.00	--
Heptachlorobiphenyls	ND		ng/cart	5.00	--
Octachlorobiphenyls	ND		ng/cart	5.00	--
Nonachlorobiphenyls	ND		ng/cart	5.00	--
Decachlorobiphenyl	ND		ng/cart	5.00	--
Total Homologs	ND		ng/cart	5.00	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Cl3-BZ#19-C13	66		50-125
Cl8-BZ#202-C13	62		50-125

Lab Control Sample Analysis
Batch Quality Control

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG487482-2								
Cl1-BZ#1	95		-		40-140	-		30
CL1-BZ#3	101		-		40-140	-		30
Cl2-BZ#4/#10	109		-		40-140	-		30
Cl2-BZ#5/#8	90		-		40-140	-		30
Cl3-BZ#19	95		-		40-140	-		30
Cl3-BZ#18	85		-		40-140	-		30
Cl2-BZ#15	86		-		40-140	-		30
Cl4-BZ#54	91		-		40-140	-		30
Cl3-BZ#29	80		-		40-140	-		30
Cl4-BZ#50	96		-		40-140	-		30
Cl3-BZ#28/#31	84		-		40-140	-		30
Cl4-BZ#45	98		-		40-140	-		30
Cl4-BZ#52	84		-		40-140	-		30
Cl4-BZ#43/#49	90		-		40-140	-		30
Cl4-Bz#47/#48	87		-		40-140	-		30
Cl5-BZ#104	88		-		40-140	-		30
Cl4-BZ#44	84		-		40-140	-		30
Cl3-BZ#37	71		-		40-140	-		30
Cl4-BZ#74	80		-		40-140	-		30
Cl6-BZ#155	91		-		40-140	-		30
Cl4-BZ#70	79		-		40-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG487482-2								
Cl4-BZ#66	81		-		40-140	-		30
Cl5-BZ#95	78		-		40-140	-		30
Cl4-BZ#56/#60	75		-		40-140	-		30
Cl5-BZ#101/#84	91		-		40-140	-		30
Cl5-BZ#99	82		-		40-140	-		30
Cl6-BZ#154	81		-		40-140	-		30
Cl5-BZ#110	74		-		40-140	-		30
Cl4-BZ#81	78		-		40-140	-		30
Cl6-BZ#151	79		-		40-140	-		30
Cl4-BZ#77	75		-		40-140	-		30
Cl5-BZ#123	74		-		40-140	-		30
Cl6-BZ#149	82		-		40-140	-		30
Cl7-BZ#188	77		-		40-140	-		30
Cl5-BZ#118	77		-		40-140	-		30
Cl6-BZ#146	80		-		40-140	-		30
Cl5-BZ#114	74		-		40-140	-		30
Cl6-BZ#153	75		-		40-140	-		30
Cl6-BZ#138/#163	64		-		40-140	-		30
Cl6-BZ#158	76		-		40-140	-		30
Cl5-BZ#105	68		-		40-140	-		30
Cl7-BZ#182/#187	77		-		40-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
PCB Homologs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG487482-2								
Cl7-BZ#183	79		-		40-140	-		30
Cl6-BZ#167/#128	75		-		40-140	-		30
Cl5-BZ#126	55		-		40-140	-		30
Cl7-BZ#174	82		-		40-140	-		30
Cl8-BZ#202	83		-		40-140	-		30
Cl7-BZ#177	79		-		40-140	-		30
Cl6-BZ#156	73		-		40-140	-		30
Cl6-BZ#157	73		-		40-140	-		30
Cl7-BZ#180	84		-		40-140	-		30
Cl7-BZ#170/#190	63		-		40-140	-		30
Cl8-BZ#201	77		-		40-140	-		30
Cl6-BZ#169	68		-		40-140	-		30
Cl9-BZ#208	80		-		40-140	-		30
Cl7-BZ#189	75		-		40-140	-		30
Cl8-BZ#195	70		-		40-140	-		30
Cl8-BZ#194	72		-		40-140	-		30
Cl8-BZ#205	71		-		40-140	-		30
Cl9-BZ#206	69		-		40-140	-		30
Cl10-BZ#209	70		-		40-140	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

PCB Homologs by GC/MS-SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG487482-2

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Cl3-BZ#19-C13	73				50-125
Cl8-BZ#202-C13	73				50-125

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1113566-01A	PUF Air Cartridge - High or Low	A	N/A	3.5	Y	Absent	A2-PCBHOMS-8270SIM(7)
L1113566-02A	PUF Air Cartridge - High or Low	A	N/A	3.5	Y	Absent	A2-PCBHOMS-8270SIM(7)

*Values in parentheses indicate holding time in days

Project Name:	WESTPORT MIDDLE SCHOOL	**Lab Number:**	L1113566
Project Number:	20080788.A6E	**Report Date:**	09/06/11

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.

LFB - Laboratory Fortified Blank: 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.

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.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

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

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For 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.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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.

I - 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.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

Data Qualifiers

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.

Project Name: WESTPORT MIDDLE SCHOOL
Project Number: 20080788.A6E

Lab Number: L1113566
Report Date: 09/06/11

REFERENCES

105 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997 in conjunction with Determination of Pesticides and PCBs in Water and Oil/Sediment by GC/MS: Method 680. EPA 01A0005295, November 1985.

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 August 4, 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, 8270D.)

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, 8270D.)

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

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, SM2540D, 2540G, , EPA 180.1, 1631E, SW-846 7470A, 9040B, 6020. 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, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9040B, 9045C, 9050A, 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, 3610C, 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, 245.7, 7470A, 9014, 9040B, 9050, 120.1, 4500CN-E, 4500H-B, EPA 376.2, 180.1, 3020A. 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, 5035, 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, 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.

Serial No:09061115:17

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab:

ALPHA Job #: L1113566

Client Information

Client: Fusion O'Neill Environmental
Address: 50 Redfield St
Boston MA
Phone: 617-482-4275
Fax:
Email: RMay@Fando.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: WESTPORT MIDDLE SCHOOL
Project Location:
Project #: L0910054.A6G
Project Manager: R. Lim
ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved)
Date Due: 3 DAY Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:
Hold extract for conjener analysis

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-14A by TO-15	TO-15 CS/MS	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
L1113566-1	831-JAC-A33	8/31	1821	2007	4.2	4.2						✓							Room 2
-2	A34			2007															BLANK
					29.8														

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Peter	8/31/11		8/31/11 845
Skinch	9/1/11 945		9/1/11 0945

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 Terms and Conditions. See reverse side.