

September 29, 2014

Jason Pringle  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn School  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 14I1187

Enclosed are results of analyses for samples received by the laboratory on September 25, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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

AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Jason Pringle

REPORT DATE: 9/29/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14I1187

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
A0924-01	14I1187-01	Air	Gym-Front	TO-10A/EPA 680 Modified	
A0924-02	14I1187-02	Air	Gym-Back	TO-10A/EPA 680 Modified	
A0924-03	14I1187-03	Air	Blank	TO-10A/EPA 680 Modified	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**TO-10A/EPA 680 Modified****Qualifications:****B**

Analyte is found in the associated blank as well as in the sample.

**Analyte & Samples(s) Qualified:****Decachlorobiphenyl**

B105839-BS1, B105839-BSD1

**Total Polychlorinated biphenyls**

14I1187-01[A0924-01], 14I1187-02[A0924-02], 14I1187-03[A0924-03]

**B-07**

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

**Analyte & Samples(s) Qualified:****Total Polychlorinated biphenyls**

14I1187-01[A0924-01], 14I1187-02[A0924-02]

**S-20**

Surrogate recovery is outside of control limits. Sample media does not allow for re-extraction.

**Analyte & Samples(s) Qualified:****Tetrachloro-m-xylene**

14I1187-01[A0924-01], 14I1187-02[A0924-02], 14I1187-03[A0924-03]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski  
Laboratory Director

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# ANALYTICAL RESULTS

Project Location: Osborn School

Date Received: 9/25/2014

Field Sample #: A0924-01

Sample ID: 14I1187-01

Sample Matrix: Air

Sampled: 9/24/2014 14:00

Sample Description/Location: Gym-Front

Sub Description/Location:

Flow Controller ID:

Sample Type:

Air Volume L: 1800

Work Order: 14I1187

## TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Monochlorobiphenyls	ND	0.0010		ND	0.00056	1	9/29/14 12:07	CJM	
Dichlorobiphenyls	ND	0.0010		ND	0.00056	1	9/29/14 12:07	CJM	
Trichlorobiphenyls	0.049	0.0010		0.027	0.00056	1	9/29/14 12:07	CJM	
Tetrachlorobiphenyls	1.0	0.0020		0.55	0.0011	1	9/29/14 12:07	CJM	
Pentachlorobiphenyls	2.7	0.0020		1.5	0.0011	1	9/29/14 12:07	CJM	
Hexachlorobiphenyls	0.81	0.0020		0.45	0.0011	1	9/29/14 12:07	CJM	
Heptachlorobiphenyls	0.050	0.0030		0.028	0.0017	1	9/29/14 12:07	CJM	
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	9/29/14 12:07	CJM	
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	9/29/14 12:07	CJM	
Decachlorobiphenyl	ND	0.0050		ND	0.0028	1	9/29/14 12:07	CJM	
Total Polychlorinated biphenyls	4.6		B-07, B	2.5		1	9/29/14 12:07	CJM	

Surrogates	% Recovery		% REC Limits		
Tetrachloro-m-xylene	45.2*	S-20	50-125		9/29/14 12:07

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# ANALYTICAL RESULTS

Project Location: Osborn School

Sample Description/Location: Gym-Back

Work Order: 1411187

Date Received: 9/25/2014

Sub Description/Location:

Field Sample #: A0924-02

Sample ID: 1411187-02

Sample Matrix: Air

Flow Controller ID:

Sampled: 9/24/2014 14:00

Sample Type:

Air Volume L: 1800

## TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Monochlorobiphenyls	ND	0.0010		ND	0.00056	1	9/29/14	12:36	CJM
Dichlorobiphenyls	ND	0.0010		ND	0.00056	1	9/29/14	12:36	CJM
Trichlorobiphenyls	0.038	0.0010		0.021	0.00056	1	9/29/14	12:36	CJM
Tetrachlorobiphenyls	0.77	0.0020		0.43	0.0011	1	9/29/14	12:36	CJM
Pentachlorobiphenyls	2.1	0.0020		1.2	0.0011	1	9/29/14	12:36	CJM
Hexachlorobiphenyls	0.64	0.0020		0.36	0.0011	1	9/29/14	12:36	CJM
Heptachlorobiphenyls	0.041	0.0030		0.023	0.0017	1	9/29/14	12:36	CJM
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	9/29/14	12:36	CJM
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	9/29/14	12:36	CJM
Decachlorobiphenyl	ND	0.0050		ND	0.0028	1	9/29/14	12:36	CJM
Total Polychlorinated biphenyls	3.6		B-07, B	2.0		1	9/29/14	12:36	CJM

Surrogates	% Recovery		% REC Limits	
Tetrachloro-m-xylene	40.2*	S-20	50-125	9/29/14 12:36

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# ANALYTICAL RESULTS

Project Location: Osborn School

Date Received: 9/25/2014

Field Sample #: A0924-03

Sample ID: 1411187-03

Sample Matrix: Air

Sampled: 9/24/2014 00:00

Sample Description/Location: Blank

Sub Description/Location:

Work Order: 1411187

Flow Controller ID:

Sample Type:

## TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Monochlorobiphenyls	ND	0.0010		1	9/29/14 13:06		CJM
Dichlorobiphenyls	ND	0.0010		1	9/29/14 13:06		CJM
Trichlorobiphenyls	ND	0.0010		1	9/29/14 13:06		CJM
Tetrachlorobiphenyls	ND	0.0020		1	9/29/14 13:06		CJM
Pentachlorobiphenyls	0.0051	0.0020		1	9/29/14 13:06		CJM
Hexachlorobiphenyls	ND	0.0020		1	9/29/14 13:06		CJM
Heptachlorobiphenyls	ND	0.0030		1	9/29/14 13:06		CJM
Octachlorobiphenyls	ND	0.0030		1	9/29/14 13:06		CJM
Nonachlorobiphenyls	ND	0.0050		1	9/29/14 13:06		CJM
Decachlorobiphenyl	ND	0.0050		1	9/29/14 13:06		CJM
Total Polychlorinated biphenyls	0.0051		B	1	9/29/14 13:06		CJM

Surrogates	% Recovery	% REC Limits		
Tetrachloro-m-xylene	49.8*	S-20	50-125	9/29/14 13:06

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### Sample Extraction Data

Prep Method: SW-846 3540C-TO-10A/EPA 680 Modified

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
14I1187-01 [A0924-01]	B105839	1.00	1.00	09/26/14
14I1187-02 [A0924-02]	B105839	1.00	1.00	09/26/14
14I1187-03 [A0924-03]	B105839	1.00	1.00	09/26/14



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### QUALITY CONTROL

#### PCB Homologues by GC/MS with Soxhlet Extraction - Quality Control

Analyte	Total µg		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	Total µg	Result	%REC	Limits	RPD	Limit	
Batch B105839 - SW-846 3540C											
Blank (B105839-BLK1)					Prepared: 09/26/14 Analyzed: 09/29/14						
Monochlorobiphenyls	ND	0.0010									
Dichlorobiphenyls	ND	0.0010									
Trichlorobiphenyls	ND	0.0010									
Tetrachlorobiphenyls	ND	0.0020									
Pentachlorobiphenyls	ND	0.0020									
Hexachlorobiphenyls	ND	0.0020									
Heptachlorobiphenyls	ND	0.0030									
Octachlorobiphenyls	ND	0.0030									
Nonachlorobiphenyls	ND	0.0050									
Decachlorobiphenyl	0.0080	0.0050									
Total Polychlorinated biphenyls	0.0080										
Surrogate: Tetrachloro-m-xylene	0.133				0.200		66.6	50-125			
LCS (B105839-BS1)					Prepared: 09/26/14 Analyzed: 09/29/14						
Monochlorobiphenyls	0.14	0.0010			0.200		71.5	40-140			
Dichlorobiphenyls	0.11	0.0010			0.200		57.4	40-140			
Trichlorobiphenyls	0.11	0.0010			0.200		57.1	40-140			
Tetrachlorobiphenyls	0.25	0.0020			0.400		61.9	40-140			
Pentachlorobiphenyls	0.26	0.0020			0.400		65.8	40-140			
Hexachlorobiphenyls	0.27	0.0020			0.400		66.4	40-140			
Heptachlorobiphenyls	0.41	0.0030			0.600		68.1	40-140			
Octachlorobiphenyls	0.41	0.0030			0.600		68.6	40-140			
Nonachlorobiphenyls	0.85	0.0050			1.00		85.3	40-140			
Decachlorobiphenyl	0.81	0.0050			1.00		81.0	40-140			B
Surrogate: Tetrachloro-m-xylene	0.163				0.200		81.5	50-125			
LCS Dup (B105839-BSD1)					Prepared: 09/26/14 Analyzed: 09/29/14						
Monochlorobiphenyls	0.098	0.0010			0.200		49.2	40-140	36.9	50	
Dichlorobiphenyls	0.085	0.0010			0.200		42.4	40-140	30.1	50	
Trichlorobiphenyls	0.086	0.0010			0.200		43.0	40-140	28.1	50	
Tetrachlorobiphenyls	0.18	0.0020			0.400		45.9	40-140	29.6	50	
Pentachlorobiphenyls	0.21	0.0020			0.400		53.6	40-140	20.3	50	
Hexachlorobiphenyls	0.21	0.0020			0.400		53.1	40-140	22.2	50	
Heptachlorobiphenyls	0.33	0.0030			0.600		54.6	40-140	22.0	50	
Octachlorobiphenyls	0.34	0.0030			0.600		56.5	40-140	19.2	50	
Nonachlorobiphenyls	0.73	0.0050			1.00		73.4	40-140	14.9	50	
Decachlorobiphenyl	0.72	0.0050			1.00		72.5	40-140	11.1	50	B
Surrogate: Tetrachloro-m-xylene	0.105				0.200		52.4	50-125			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
S-20	Surrogate recovery is outside of control limits. Sample media does not allow for re-extraction.

## Certifications

AIHA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015


**con-test®**  
 ANALYTICAL LABORATORY

 Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com  
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**AIR SAMPLE CHAIN OF CUSTODY**  
**RECORD**  
 1411187

 39 SPRUCE ST  
 EAST LONGMEADOW, MA 01028

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 DOC#284  
 Rev. July 2010

 Company Name: AMC Environmental  
 Address: P.O. Box 423  
 Stratford, CT 06615

 Telephone: (203) 378-5020  
 Project #  
 Client PO #

Attention: Jason Pringle

Project Location: Osborn School

Sampled By: J Pringle

 Proposal Provided? (For Billing purposes)  
☐ yes ☐ no

Field ID Sample Description Media Lab #

A0924-01 Gym-Front 01

A0924-02 Gym-Back 02

A0924-03 Blank 03

Laboratory Comments:

CLIENT COMMENTS:

**DATA DELIVERY (check one):**  
☐ FAX ☐ EMAIL ☐ WEBSITE CLIENT

Email:

 Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

**Date Sampled** **ONLY USE WHEN USING PUMPS**

Start Stop Total Flow Rate Volume Matrix Code\*

Date Time Date Time Minutes Sampled L / Min. Liters or M³

A0924-01 0800 1400 360 5 1800 X

A0924-02 0800 1400 360 5 1800 X

A0924-03 0800 1400 360 5 1800 X

A0924-04 0800 1400 360 5 1800 X

A0924-05 0800 1400 360 5 1800 X

A0924-06 0800 1400 360 5 1800 X

A0924-07 0800 1400 360 5 1800 X

A0924-08 0800 1400 360 5 1800 X

A0924-09 0800 1400 360 5 1800 X

A0924-10 0800 1400 360 5 1800 X

A0924-11 0800 1400 360 5 1800 X

A0924-12 0800 1400 360 5 1800 X

**Turnaround \*\***
☐ 7-Day

☐ 10-Day

☐ Other

☐ RUSH \*

**Special Requirements**

Regulations:

 Data Enhancement/RCP? ☐ Y ☐ N

 Enhanced Data Package ☐ Y ☐ N

Required Detection Limits: &lt;50 ng/m³ total PCBs

**Matrix Code:**

SG = SOIL GAS

IA = INDOOR AIR

AMB = AMBIENT

SS = SUB SLAB

**Media Codes:**

S = Summa can

T = Tedlar bag

P = PUF

T = Tube

F = Filter

C = Cassette

O = Other

**ANALYSIS REQUESTED**
**"Hg"**

I n i t i a l s

P r e s e n t e d

S a m p l e

S u m m a

C a n i s t e r

F l o w

C o n t r o l l e r

I D

I D

I D

I D

I D

I D

I D

I D

I D

I D

I D

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

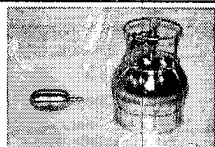
Summa canister ID

Flow Controller ID

Summa canister ID

Flow Controller ID

Summa canister ID



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East Longmeadow, MA.  
01028  
P: 413-525-2332  
F: 413-525-6405

**AIR Only Receipt Checklist**

CLIENT NAME: AME Environmental RECEIVED BY: KB DATE: 9/23/14

1) Was the chain(s) of custody relinquished and signed?

☒ Yes

No

2) Does the chain agree with the samples?

☒ Yes

No

If not, explain:

3) Are all the samples in good condition?

☒ Yes

No

If not, explain:

4) Are there any samples "On Hold"?

☒ Yes☒ No

Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples?☒ Yes

No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Location where samples are stored:

19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

7) Number of cans Individually Certified or Batch Certified? \_\_\_\_\_

**Containers received at Con-Test**

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)		
Tedlar Bags		
TO-17 Tubes		
Regulators		
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs	<u>3</u>	<u>Low vol.</u>
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used &amp; unused) checked into the WASP?

2) Were all returned summa cans, Restrictors &amp; Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

Page 2 of 2

Login Sample Receipt Checklist(Rejection Criteria Listing - Using Sample Acceptance Policy)Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	NA		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	NA		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Doc #278 Rev. 4 January 2014

Who notified of False statements?

Log-In Technician Initials: KB

Date/Time:

Date/Time:

9/25/14