

November 18, 2014

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

Project Location: Osborn
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 14K0679

Enclosed are results of analyses for samples received by the laboratory on November 14, 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 displayed on 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: 11/18/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14K0679

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

PROJECT LOCATION: Osborn

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
A1113-01	14K0679-01	Air	BLANK	TO-10A/EPA 680 Modified	
A1113-02	14K0679-02	Air	Gym B Side	TO-10A/EPA 680 Modified	
A1113-03	14K0679-03	Air	Gym B Side Duplicate	TO-10A/EPA 680 Modified	
A1113-04	14K0679-04	Air	Gym D Side	TO-10A/EPA 680 Modified	

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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:

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

14K0679-01[A1113-01], 14K0679-02[A1113-02], 14K0679-03[A1113-03], 14K0679-04[A1113-04], B109826-BLK1, B109826-BS1, B109826-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls

B109826-BS1, B109826-BSD1

Monochlorobiphenyls

B109826-BS1, B109826-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorobiphenyls

14K0679-01[A1113-01], 14K0679-02[A1113-02], 14K0679-03[A1113-03], 14K0679-04[A1113-04], B109826-BLK1

Monochlorobiphenyls

14K0679-01[A1113-01], 14K0679-02[A1113-02], 14K0679-03[A1113-03], 14K0679-04[A1113-04], B109826-BLK1

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.



Daren J. Damboragian
Laboratory Manager

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ANALYTICAL RESULTS

Project Location: Osborn

Date Received: 11/14/2014

Field Sample #: A1113-01

Sample ID: 14K0679-01

Sample Matrix: Air

Sampled: 11/13/2014 00:00

Sample Description/Location: BLANK

Sub Description/Location:

Flow Controller ID:

Sample Type:

Work Order: 14K0679

TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Monochlorobiphenyls	ND	0.0010	V-20	1	11/18/14 13:57		CJM
Dichlorobiphenyls	ND	0.0010	V-20	1	11/18/14 13:57		CJM
Trichlorobiphenyls	ND	0.0010		1	11/18/14 13:57		CJM
Tetrachlorobiphenyls	ND	0.0020		1	11/18/14 13:57		CJM
Pentachlorobiphenyls	ND	0.0020		1	11/18/14 13:57		CJM
Hexachlorobiphenyls	ND	0.0020		1	11/18/14 13:57		CJM
Heptachlorobiphenyls	ND	0.0030		1	11/18/14 13:57		CJM
Octachlorobiphenyls	ND	0.0030		1	11/18/14 13:57		CJM
Nonachlorobiphenyls	ND	0.0050		1	11/18/14 13:57		CJM
Decachlorobiphenyl	ND	0.0050	V-05	1	11/18/14 13:57		CJM
Total Polychlorinated biphenyls	0.0			1	11/18/14 13:57		CJM

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	83.4	50-125	11/18/14 13:57

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ANALYTICAL RESULTS

Project Location: Osborn

Date Received: 11/14/2014

Field Sample #: A1113-02

Sample ID: 14K0679-02

Sample Matrix: Air

Sampled: 11/13/2014 15:20

Sample Description/Location: Gym B Side

Sub Description/Location:

Work Order: 14K0679

Flow Controller ID:

Sample Type:

Air Volume L: 1800

TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	14:27	CJM
Dichlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	14:27	CJM
Trichlorobiphenyls	ND	0.0010		ND	0.00056	1	11/18/14	14:27	CJM
Tetrachlorobiphenyls	0.027	0.0020		0.015	0.0011	1	11/18/14	14:27	CJM
Pentachlorobiphenyls	0.079	0.0020		0.044	0.0011	1	11/18/14	14:27	CJM
Hexachlorobiphenyls	0.021	0.0020		0.012	0.0011	1	11/18/14	14:27	CJM
Heptachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	14:27	CJM
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	14:27	CJM
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	11/18/14	14:27	CJM
Decachlorobiphenyl	ND	0.0050	V-05	ND	0.0028	1	11/18/14	14:27	CJM
Total Polychlorinated biphenyls	0.13			0.071		1	11/18/14	14:27	CJM

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	94.8	50-125	11/18/14 14:27

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ANALYTICAL RESULTS

Project Location: Osborn

Date Received: 11/14/2014

Field Sample #: A1113-03

Sample ID: 14K0679-03

Sample Matrix: Air

Sampled: 11/13/2014 15:20

Sample Description/Location: Gym B Side Duplicate

Sub Description/Location:

Work Order: 14K0679

Flow Controller ID:

Sample Type:

Air Volume L: 1800

TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	14:57	CJM
Dichlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	14:57	CJM
Trichlorobiphenyls	ND	0.0010		ND	0.00056	1	11/18/14	14:57	CJM
Tetrachlorobiphenyls	0.031	0.0020		0.017	0.0011	1	11/18/14	14:57	CJM
Pentachlorobiphenyls	0.088	0.0020		0.049	0.0011	1	11/18/14	14:57	CJM
Hexachlorobiphenyls	0.023	0.0020		0.013	0.0011	1	11/18/14	14:57	CJM
Heptachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	14:57	CJM
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	14:57	CJM
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	11/18/14	14:57	CJM
Decachlorobiphenyl	ND	0.0050	V-05	ND	0.0028	1	11/18/14	14:57	CJM
Total Polychlorinated biphenyls	0.14			0.079		1	11/18/14	14:57	CJM

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	84.4	50-125	11/18/14 14:57

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ANALYTICAL RESULTS

Project Location: Osborn

Date Received: 11/14/2014

Field Sample #: A1113-04

Sample ID: 14K0679-04

Sample Matrix: Air

Sampled: 11/13/2014 15:22

Sample Description/Location: Gym D Side

Sub Description/Location:

Work Order: 14K0679

Flow Controller ID:

Sample Type:

Air Volume L: 1800

TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		
	Results	RL		Results	RL		Analyzed	Analyst	
Monochlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	15:26	CJM
Dichlorobiphenyls	ND	0.0010	V-20	ND	0.00056	1	11/18/14	15:26	CJM
Trichlorobiphenyls	ND	0.0010		ND	0.00056	1	11/18/14	15:26	CJM
Tetrachlorobiphenyls	0.032	0.0020		0.018	0.0011	1	11/18/14	15:26	CJM
Pentachlorobiphenyls	0.10	0.0020		0.057	0.0011	1	11/18/14	15:26	CJM
Hexachlorobiphenyls	0.025	0.0020		0.014	0.0011	1	11/18/14	15:26	CJM
Heptachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	15:26	CJM
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	11/18/14	15:26	CJM
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	11/18/14	15:26	CJM
Decachlorobiphenyl	ND	0.0050	V-05	ND	0.0028	1	11/18/14	15:26	CJM
Total Polychlorinated biphenyls	0.16			0.089		1	11/18/14	15:26	CJM

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	82.2	50-125	11/18/14 15:26

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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
14K0679-01 [A1113-01]	B109826	1.00	1.00	11/16/14
14K0679-02 [A1113-02]	B109826	1.00	1.00	11/16/14
14K0679-03 [A1113-03]	B109826	1.00	1.00	11/16/14
14K0679-04 [A1113-04]	B109826	1.00	1.00	11/16/14

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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 B109826 - SW-846 3540C											
Blank (B109826-BLK1)					Prepared: 11/16/14 Analyzed: 11/18/14						
Monochlorobiphenyls	ND	0.0010									V-20
Dichlorobiphenyls	ND	0.0010									V-20
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	ND	0.0050									V-05
Total Polychlorinated biphenyls	0.0										
Surrogate: Tetrachloro-m-xylene	0.159				0.200		79.5	50-125			
LCS (B109826-BS1)					Prepared: 11/16/14 Analyzed: 11/18/14						
Monochlorobiphenyls	0.21	0.0010			0.200		107	40-140			V-06
Dichlorobiphenyls	0.19	0.0010			0.200		93.4	40-140			V-06
Trichlorobiphenyls	0.18	0.0010			0.200		91.0	40-140			
Tetrachlorobiphenyls	0.37	0.0020			0.400		93.3	40-140			
Pentachlorobiphenyls	0.36	0.0020			0.400		88.9	40-140			
Hexachlorobiphenyls	0.33	0.0020			0.400		83.2	40-140			
Heptachlorobiphenyls	0.50	0.0030			0.600		82.7	40-140			
Octachlorobiphenyls	0.49	0.0030			0.600		81.9	40-140			
Nonachlorobiphenyls	0.72	0.0050			1.00		72.1	40-140			
Decachlorobiphenyl	0.50	0.0050			1.00		50.4	40-140			V-05
Surrogate: Tetrachloro-m-xylene	0.224				0.200		112	50-125			
LCS Dup (B109826-BSD1)					Prepared: 11/16/14 Analyzed: 11/18/14						
Monochlorobiphenyls	0.15	0.0010			0.200		74.6	40-140	35.7	50	V-06
Dichlorobiphenyls	0.15	0.0010			0.200		73.9	40-140	23.3	50	V-06
Trichlorobiphenyls	0.15	0.0010			0.200		73.7	40-140	21.0	50	
Tetrachlorobiphenyls	0.29	0.0020			0.400		73.2	40-140	24.2	50	
Pentachlorobiphenyls	0.30	0.0020			0.400		75.6	40-140	16.1	50	
Hexachlorobiphenyls	0.28	0.0020			0.400		70.2	40-140	17.0	50	
Heptachlorobiphenyls	0.42	0.0030			0.600		70.1	40-140	16.5	50	
Octachlorobiphenyls	0.45	0.0030			0.600		74.8	40-140	8.97	50	
Nonachlorobiphenyls	0.72	0.0050			1.00		72.5	40-140	0.592	50	
Decachlorobiphenyl	0.55	0.0050			1.00		54.5	40-140	7.86	50	V-05
Surrogate: Tetrachloro-m-xylene	0.160				0.200		79.9	50-125			

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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.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Certifications

AIHA

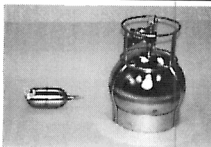
Total Polychlorinated biphenyls

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

01 02 03 04

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

AIR Only Receipt Checklist

CLIENT NAME: Amc RECEIVED BY: Kkm DATE: 11/14/14

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 Rich Date 11/14/14 Time 18:30

6) Location where samples are stored:

Walk in

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	6	
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 & unused) checked into the WASP?

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

Laboratory Comments:

081314-11 081314-12 081314-08 } unused
081314-07 081314-10 081314-09 }

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	Any false statement will be brought to the attention of Client		Answer (True/False)	Comment
	T/F/NA			
1) The coolers'/boxes' custody seal, if present, is intact.			T	
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) Samples are received within Holding Time.			T	
10) Sample containers have legible labels.			T	
11) Containers/media are not broken or leaking and valves and caps are closed tightly.			T	
12) Sample collection date/times are provided.			T	
13) Appropriate sample/media containers are used.			T	
14) There is sufficient volume for all requested analyses, including any requested MS/MSDs.			T	
15) Trip blanks provided if applicable.			NA	

Doc #278 Rev. 5 October 2014

Who notified of False statements?

Log-In Technician Initials:

KKM

Date/Time:

Date/Time:

11/14/14
18:30