Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-1				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 7:31:00 AM			3/10/2015 1:30:00 PM
Sample ID	42247-2				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 7:39:00 AM			3/10/2015 1:46:00 PM
Sample ID	42247-3				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 7:53:00 AM			3/10/2015 2:01:00 PM
Sample ID	42247-4				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:10:00 AM			3/10/2015 2:17:00 PM
Sample ID	42247-5				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:20:00 AM			3/10/2015 2:32:00 PM
Sample ID	42247-6				
Matrix	Solid				

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:28:00 AM			3/10/2015 2:48:00 PM
Sample ID	42247-7				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:43:00 AM			3/10/2015 3:03:00 PM
Sample ID	42247-8				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:48:00 AM			3/10/2015 3:19:00 PM
Sample ID	42247-9				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 9:21:00 AM			3/10/2015 3:34:00 PM
Sample ID	42247-10				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 9:41:00 AM			3/10/2015 4:08:00 PM
Sample ID	42247-11				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 7:36:00 AM			3/10/2015 4:24:00 PM

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Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-12
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 7:50:00 AM			3/10/2015 4:39:00 PM

Sample ID	42247-13
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:10:00 AM			3/10/2015 4:55:00 PM

Sample ID	42247-14
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:32:00 AM			3/10/2015 5:10:00 PM

Sample ID	42247-15
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:49:00 AM			3/10/2015 5:26:00 PM

Sample ID	42247-16
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 8:59:00 AM			3/10/2015 5:42:00 PM

Sample ID	42247-17
Matrix	Solid

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 9:15:00 AM			3/10/2015 5:57:00 PM
Sample ID	42247-18				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 9:23:00 AM			3/10/2015 6:13:00 PM
Sample ID	42247-19				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 9:37:00 AM			3/10/2015 6:29:00 PM
Sample ID	42247-20				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 10:02:00 AM			3/10/2015 6:45:00 PM
Sample ID	42247-21				
Matrix	Oil				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Oil	8082A	2/11/2015 3:30:00 PM			3/10/2015 2:44:00 AM
Sample ID	42247-22				
Matrix	Oil				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Oil	8082A	2/11/2015 3:52:00 PM			3/10/2015 2:59:00 AM

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Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-23
Matrix	Oil

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Oil	8082A	2/11/2015 4:00:00 PM			3/10/2015 3:15:00 AM

Sample ID	42247-24
Matrix	Oil

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Oil	8082A	2/11/2015 3:57:00 PM			3/10/2015 3:31:00 AM

Sample ID	42247-25
Matrix	Oil

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Oil	8082A	2/11/2015 4:55:00 PM			3/10/2015 8:51:00 PM

Sample ID	42247-26
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 4:12:00 PM			3/10/2015 9:07:00 PM

Sample ID	42247-27
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 4:05:00 PM			3/10/2015 9:23:00 PM

Sample ID	42247-28
Matrix	Solid

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Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 4:20:00 PM			3/10/2015 9:39:00 PM
Sample ID	42247-29				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 4:06:00 PM			3/10/2015 9:55:00 PM
Sample ID	42247-30				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 4:50:00 PM			3/10/2015 10:10:00 PM
Sample ID	42247-31				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 11:59:00 AM			3/10/2015 10:26:00 PM
Sample ID	42247-32				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:02:00 PM			3/10/2015 10:42:00 PM
Sample ID	42247-33				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:15:00 PM			3/10/2015 5:52:00 AM

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Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-34				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:20:00 PM			3/10/2015 10:58:00 PM
Sample ID	42247-35				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:25:00 PM			3/10/2015 11:14:00 PM
Sample ID	42247-36				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:33:00 PM			3/10/2015 11:29:00 PM
Sample ID	42247-37				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:40:00 PM			3/10/2015 11:45:00 PM
Sample ID	42247-38				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:45:00 PM			3/11/2015 12:01:00 AM
Sample ID	42247-39				
Matrix	Solid				

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 12:50:00 PM			3/11/2015 12:16:00 AM
Sample ID	42247-40				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:01:00 PM			3/11/2015 12:32:00 AM
Sample ID	42247-41				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:08:00 PM			3/10/2015 3:48:00 PM
Sample ID	42247-42				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:15:00 PM			3/10/2015 4:04:00 PM
Sample ID	42247-43				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:20:00 PM			3/10/2015 4:21:00 PM
Sample ID	42247-44				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:30:00 PM			3/10/2015 4:38:00 PM

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Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-45
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:35:00 PM			3/10/2015 4:55:00 PM

Sample ID	42247-46
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 1:53:00 PM			3/10/2015 5:12:00 PM

Sample ID	42247-47
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:00:00 PM			3/10/2015 5:28:00 PM

Sample ID	42247-48
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:03:00 PM			3/10/2015 5:45:00 PM

Sample ID	42247-49
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:07:00 PM			3/10/2015 6:02:00 PM

Sample ID	42247-50
Matrix	Solid

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:12:00 PM			3/10/2015 6:19:00 PM
Sample ID	42247-51				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:39:00 PM			3/10/2015 6:36:00 PM
Sample ID	42247-52				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:41:00 PM			3/10/2015 6:53:00 PM
Sample ID	42247-53				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:47:00 PM			3/10/2015 7:09:00 PM
Sample ID	42247-54				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 2:56:00 PM			3/10/2015 7:26:00 PM
Sample ID	42247-55				
Matrix	Solid				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 3:12:00 PM			3/10/2015 7:43:00 PM

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Sample ID	42247-56
Matrix	Solid

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Non-aqueous	8082A	2/11/2015 3:20:00 PM			3/10/2015 8:00:00 PM

Sample ID	42247-57
Matrix	Field Blank

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 1:05:00 PM			3/10/2015 2:53:00 AM

Sample ID	42247-58
Matrix	Field Blank

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 3:13:00 PM			3/9/2015 3:10:00 AM

Sample ID	42247-59
Matrix	Wipes

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 9:42:00 AM			3/9/2015 3:27:00 AM

Sample ID	42247-60
Matrix	Wipes

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 10:06:00 AM			3/10/2015 3:44:00 AM

Sample ID	42247-61
Matrix	Wipes

Mid-Atlantic Environmental Laboratories, Inc.

Laboratory Chronicle

Job ID	42247
Date / Time Received	02/26/2015 1:20:59 PM

Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 1:03:00 PM			3/10/2015 4:01:00 AM
Sample ID	42247-62				
Matrix	Wipes				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 2:13:00 PM			3/10/2015 4:18:00 AM
Sample ID	42247-63				
Matrix	Wipes				
Analysis	Method	Date/Time Sampled	Date/Time Tumbled	Date/Time Prepped	Date/Time Analyzed
PCBs - Wipe	8082A	2/11/2015 3:13:00 PM			3/10/2015 4:35:00 AM

Conformance Summary

Mid-Atlantic
Environmental Laboratories, Inc.

PCB GC/ECD Analysis Conformance Summary

		No	Yes
1.	Chromatograms Labeled/Compounds Identified?	☐	☒
2.	GC Calibration - Initial Calibration Performed Within 30 Days Of Sample Analysis and Continuing Calibration Performed Within 24 Hours Of Analysis?	☐	☒
3.	ICV/CCV Meets Criteria (±20%)?	☒	☐
4.	Blank Contamination? – If yes, list compounds and concentrations found:	☒	☐

Compound Found	Concentration
_____	_____
_____	_____

5.	Surrogate Recoveries Meet Criteria?	☒	☐

If not, write the percent recovery of the compound that falls outside the acceptable range:
Tetrachloro-m-xylene (TCMX) 130.7%, 0%, 143.2% [1]
Decachlorobiphenyl (DCB) 0% [1], 190.7%, 175.8% [6]

6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria?	☐	☐

If not met, write the recovery of the compound that falls outside the acceptable range:

Compound	MS or MSD	% Recovery
Aroclor 1016	_____	_____
Aroclor 1260	_____	_____

7.	Retention Time Shift Meets Criteria?	☐	☒
8.	Extraction Holding Time Met?	☐	☒
9.	Analysis Holding Time Met?	☐	☒

Additional Comments:
[1] Matrix Interference
[2] Outside method limits but within laboratory acceptance limits
[3] Surrogate diluted out
[4] Sample concentration exceeded spike concentration
[5] Sample not spiked / spiked incorrectly
[6] Outside method limits

Prepared By: Brandon Cuffel Date: 3/12/15

Reviewed By: [signature] Date: 3/12/15

Methodology Summary

Methodology Summary

Lab Project #: 42247

42247-1

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-2

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-3

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-4

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-5

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-6

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-7

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-8

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-9

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-10

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-11

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-12

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-13

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-14

Analysis	Method ID
PCBs - Non-aqueous	8082A

Methodology Summary

Lab Project #: 42247

42247-15

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-16

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-17

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-18

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-19

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-20

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-21

Analysis	Method ID
PCBs - Oil	8082A

42247-22

Analysis	Method ID
PCBs - Oil	8082A

42247-23

Analysis	Method ID
PCBs - Oil	8082A

42247-24

Analysis	Method ID
PCBs - Oil	8082A

42247-25

Analysis	Method ID
PCBs - Oil	8082A

42247-26

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-27

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-28

Analysis	Method ID
PCBs - Non-aqueous	8082A

Methodology Summary

Lab Project #: 42247

42247-29

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-30

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-31

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-32

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-33

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-34

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-35

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-36

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-37

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-38

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-39

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-40

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-41

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-42

Analysis	Method ID
PCBs - Non-aqueous	8082A

Methodology Summary

Lab Project #: 42247

42247-43

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-44

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-45

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-46

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-47

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-48

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-49

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-50

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-51

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-52

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-53

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-54

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-55

Analysis	Method ID
PCBs - Non-aqueous	8082A

42247-56

Analysis	Method ID
PCBs - Non-aqueous	8082A

Methodology Summary

Lab Project #: 42247

42247-57

Analysis	Method ID
PCBs - Wipe	8082A

42247-58

Analysis	Method ID
PCBs - Wipe	8082A

42247-59

Analysis	Method ID
PCBs - Wipe	8082A

42247-60

Analysis	Method ID
PCBs - Wipe	8082A

42247-61

Analysis	Method ID
PCBs - Wipe	8082A

42247-62

Analysis	Method ID
PCBs - Wipe	8082A

42247-63

Analysis	Method ID
PCBs - Wipe	8082A

Methodology Summary

Lab Project #: 42247

All analyses are adapted from one or more of the following reference methods:

"Guidelines Establishing Test Procedures for the Analysis of Pollutants"' Code of Federal Regulations, Vol. 40, Part 136
"Test Methods for Evaluating Solid Waste", SW846 Third Edition, September 1986, USEPA.
Code of Federal Regulations Vol. 40, Part 261, "Appendix II _ Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)".
Standard Methods for the Examination of Water and Wastewater", 20th edition
"Methods for the Chemical Analysis of Water and Wastes", EPA600/4-79-020, March 1983, U.S. EPA, EMSL
"Annual Book of Standards, Section 11-Water", American Society for Testing and Materials (ASTM)
"Methods for the Determination of Organic Compounds in Drinking Water", EPA 600/4-88/039, December 1988

If applicable, all modifications to the standard methods are decribed in the following pages.

Abbreviations

U	Not Detected	B	Compound found in Method Blank
E	Estimated Concentration	J	Compound detected below reportable reporting limit, result estimated
NFL	No Free Liquid		
NR	Not Reactive	NA	Not Applicable
NS	Not Requested	NI	Not Ignitable
<	Less than the MDL or PQL	ND	Not Detected
NP	No PCB pattern detected	MDL	Method Detection Limit - specified by either the method or determined by performing an MDL study
LCS	Laboratory Control Sample		
BS	Blank Spike (Method Spike)		
MS/MSD	Matrix Spike/Matrix Spike Duplicate	PQL	Practical Quantitation Level
RSD	Relative Standard Deviation	RPD	Relative Percent Difference
NTU	Nephelometric Turbidity Units	umhos	Conductivity Units
deg. C	Degrees Celsius	ohms	Resistivity Units
deg. F	Degrees Fahrenheit	L	Liter
ppb	Parts Per Billion	ppm	Parts Per Million
ug	Microgram (1000 ug = 1 mg)	mg	Milligram (1000 mg = 1 g)
g	gram (1000 g = 1Kg)	kg	Kilogram
ul	Microliter (1000 ul = 1 ml)	ml	Milliliter (1000 ml = 1 L)
S.U.	Standard Unit		

PCBs

Mid-Atlantic
Environmental Laboratories, Inc.

PCB Batch QC Summary

Instrument: 3A **Matrix:** Solid

Column: RTX-CLP 30 m x 1.5 um x 0.5 um I.D.

Date Analyzed: 03/10/2015 **Analytical Batch #:** 031015 2A **Prep Batch #:** 030315pcb

Laboratory Control Sample (Method Spike) and Matrix Spike/Matrix Spike Duplicate concentration: 500 ppb (QC +/- 30%)

Initial Calibration (ICV) and Continuing Calibration (CCV) concentration:500 ppb (QC +/- 20%)

Instrument and Method Blanks are to be less than 100 ppb Initial weight.Final volume: 10ml

Sample Number	Date Received	Date Extracted	TCMX found	TCMX % Recovery	DCB found	DCB % Recovery	Conc Found	AR1016 % Recovery	AR1260 % Recovery	AR1254 % Recovery	AR1248 % Recovery
CCV 1660	NA	NA	64.4095	128.8	48.6255	97.3		104.0	85.7		
ICV 1254	NA	NA	57.7763	115.6	57.4893	115.0				103.5	
ICV 1248	NA	NA	58.1703	116.3	42.8734	85.7					114.7
MB	NA	3/3/2015	55.1303	110.3	59.0034	118.0	ND				
LCS	NA	3/3/2015	59.8252	119.7	54.2755	108.6		100.0	102.2		
42247-1 10X	02/26/15	3/3/2015	6.5360	130.7 [1]	4.2817	85.6	5254.8				
42247-2 10X	02/26/15	3/3/2015	5.1868	103.7	5.6231	112.5	669.8				
42247-3 2X	02/26/15	3/3/2015	24.7725	99.1	28.8679	115.5	2046.5				
42247-4 2X	02/26/15	3/3/2015	23.3371	93.3	26.3870	105.5	4993.8				
42247-5 2X	02/26/15	3/3/2015	23.9743	95.9	26.5745	106.3	4140.0				
42247-6 2X	02/26/15	3/3/2015	28.2072	112.8	30.4897	122.0	5275.3				
42247-7 2X	02/26/15	3/3/2015	24.5968	98.4	32.2464	129.0	1834.7				
42247-8	02/26/15	3/3/2015	62.6445	125.3	51.9483	103.9	1733.0				
42247-9	02/26/15	3/3/2015	56.6471	113.3	61.1360	122.3	11.5				
42247-10	02/26/15	3/3/2015	49.0328	98.1	47.4067	94.8	10.2				
42247-11	02/26/15	3/3/2015	62.5208	125.0	62.9069	125.8	11.1				
42247-12	02/26/15	3/3/2015	59.3793	118.8	59.9729	119.9	4.9				
42247-13	02/26/15	3/3/2015	49.7611	99.5	53.9462	107.9	52.9				
42247-14 5X	02/26/15	3/3/2015	10.9490	109.5	12.5160	125.2	148.9				
42247-15	02/26/15	3/3/2015	52.2856	104.6	48.0489	96.1	10.3				
42247-16 10X	02/26/15	3/3/2015	4.8605	97.2	5.8754	117.5	160.5				
42247-17	02/26/15	3/3/2015	53.8068	107.6	54.4411	108.9	2.5				
42247-18 5X	02/26/15	3/3/2015	8.6197	86.2	11.8360	118.4	61.8				
42247-19	02/26/15	3/3/2015	52.1305	104.3	50.2881	100.8	26.3				
42247-20 2X	02/26/15	03/03/15	28.6923	114.8	25.3717	101.5	40.3				
CCV 1254	NA	NA	49.9392	99.9	58.4048	116.8				113.6	
CCV 1248	NA	NA	58.4450	116.9	45.5453	91.1					115.6
CCV 1660	NA	NA	58.7616	117.5	44.1549	88.3		104.4	104.8		

[1] Matrix Interference
[2] Outside method limits but within laboratory acceptance limits
[3] Surrogate diluted out
[4] Sample concentration exceeds spike concentration
[5] Sample not spiked/spiked incorrectly
[6] Outside method limits

Mid-Atlantic
Environmental Laboratories, Inc.

PCB Batch QC Summary

Instrument: 3A **Matrix:** Wipe
Column: RTX-CLP 30 m x 1.5 um x 0.5 um I.D.
Date Analyzed: 03/09/2015 **Analytical Batch #:** 030915 2a **Prep Batch #:** 030315pcb02

Laboratory Control Sample (Method Spike) and Matrix Spike/Matrix Spike Duplicate concentration: 500 ppb (QC +/- 30%)
Initial Calibration (ICV) and Continuing Calibration (CCV) concentration:500 ppb (QC +/- 20%)
Instrument and Method Blanks are to be less than 100 ppb Initial weight: Final volume: 10ml

Sample Number	Date Received	Date Extracted	TCMX found	TCMX % Recovery	DCB found	DCB % Recovery	Conc Found	AR1016 % Recovery	AR1260 % Recovery
CCV	NA	NA	60.1618	120.3	60.5355	121.1		99.5	114.2
MB	NA	3/3/2015	57.3502	114.7	60.8231	121.6	ND		
LCS	NA	3/3/2015	62.4059	124.8	61.8474	123.7	ND [5]		
42247-21	02/26/15	3/3/2015	44.9140	89.8	61.4099	122.8	ND		
42247-22	02/26/15	3/3/2015	36.3293	72.7	61.0958	122.2	ND		
42247-23	02/26/15	3/3/2015	36.4463	72.9	60.7992	121.6	ND		
42247-24	02/26/15	3/3/2015	36.3773	72.8	54.2261	108.5	ND		
42247-33	02/26/15	3/3/2015	63.9759	128.0	51.2206	102.4	ND		
CCV	NA	NA	60.7275	121.5	57.2007	114.4		98.3	84.3

[1] Matrix Interference
[2] Outside method limits but within laboratory acceptance limits
[3] Surrogate diluted out
[4] Sample concentration exceeds spike concentration
[5] Sample not spiked/spiked incorrectly
[6] Outside method limits

Mid-Atlantic
Environmental Laboratories, Inc.

PCB Batch QC Summary

Instrument: 3A **Matrix:** Solid

Column: RTX-CLP 30 m x 1.5 um x 0.5 um I.D.

Date Analyzed: 03/10/2015 **Analytical Batch #:** 031015 2A **Prep Batch #:** 030315pcb02

Laboratory Control Sample (Method Spike) and Matrix Spike/Matrix Spike Duplicate concentration: 500 ppb (QC +/- 30%)

Initial Calibration (ICV) and Continuing Calibration (CCV) concentration:500 ppb (QC +/- 20%)

Instrument and Method Blanks are to be less than 100 ppb *Initial weight: Final volume: 10ml*

Sample Number	Date Received	Date Extracted	TCMX found	TCMX % Recovery	DCB found	DCB % Recovery	Conc Found	AR1016 % Recovery	AR1260 % Recovery	AR1254 % Recovery	AR1248 % Recovery
CCV 1254	NA	NA	49.9392	99.9	58.4048	116.8				113.6	
CCV 1248	NA	NA	58.4450	116.9	45.5453	91.1					115.6
CCV 1660	NA	NA	58.7616	117.5	44.1549	88.3		104.4	104.8		
MB	NA	3/3/2015	60.2535	120.5	50.8496	101.7	ND				
LCS	NA	3/3/2015	64.0480	128.1	41.6485	83.3		112.5	94.5		
42247-25	02/26/15	3/3/2015	ND	ND [1]	38.7301	77.5	ND				
42247-26	02/26/15	3/3/2015	47.6450	95.3	44.5476	89.1	4.2				
42247-27	02/26/15	3/3/2015	54.8250	109.6	45.4292	90.9	1.5				
42247-28	02/26/15	3/3/2015	55.9986	112.0	63.4217	126.8	2.0				
42247-29	02/26/15	3/3/2015	54.9587	109.9	53.3601	106.7	1.7				
42247-30	02/26/15	3/3/2015	41.6574	83.3	63.2137	126.4	13.0				
42247-31	02/26/15	3/3/2015	60.8359	121.7	53.6201	107.2	9.4				
42247-32 2X	02/26/15	3/3/2015	22.7560	91.0	21.0271	84.1	51.8				
42247-34	02/26/15	3/3/2015	58.9149	117.8	59.6058	119.2	8.7				
42247-35	02/26/15	3/3/2015	46.9128	93.8	46.1355	92.3	11.5				
42247-36	02/26/15	3/3/2015	48.5458	97.1	55.7093	111.4	4.7				
42247-37	02/26/15	3/3/2015	51.1135	102.2	58.8885	117.8	5.3				
42247-38	02/26/15	3/3/2015	59.0129	118.0	58.8549	117.7	17.9				
42247-39	02/26/15	3/3/2015	55.1932	110.4	59.3703	118.7	5.6				
42247-40	02/26/15	03/03/15	64.0056	128.0	64.8397	129.7	1.7				
CCV 1254	NA	NA	52.4681	104.9	40.4488	80.9				99.2	
CCV 1248	NA	NA	56.3692	112.7	61.1737	122.3					114.4
CCV 1660	NA	NA	64.0290	128.1	37.6445	75.3		110.6	95.3		

[1] Matrix Interference
[2] Outside method limits but within laboratory acceptance limits
[3] Surrogate diluted out
[4] Sample concentration exceeds spike concentration
[5] Sample not spiked/spiked incorrectly
[6] Outside method limits