

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-57287-2
Client Project/Site: MadisonKipp WI001283.0008.00006

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Rebecca Robbennolt



Authorized for release by:
5/28/2013 9:28:01 AM

Sandie Fredrick, Project Manager I
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	10
QC Association	11
Surrogate Summary	12
QC Sample Results	13
Chronicle	15
Certification Summary	17
Chain of Custody	18
Receipt Checklists	21

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Job ID: 500-57287-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-57287-2

Comments

No additional comments.

Receipt

The samples were received on 5/22/2013 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

Except: Sample 12 has ID of 241-17-Wall and sample 15 has ID of MKC-17-Wall, times match COC, logged per COC.

GC Semi VOA

Method(s) 8082: The grand mean exception, as outlined in EPA Method 8000B, was applied to the continuing calibration verification (CCV) standard associated with batches 187215, 187216 and 187248. This rule states that when one or more compounds in the CCV fail to meet acceptance criteria, the data may be reported if the average %D (the grand mean) of all the compounds in the CCV is less than or equal to 15%D. MKC-15-Base (500-57287-4), MKC-16-Base (500-57287-8), MKC-17-Base (500-57287-12), MKC-18-Base (500-57287-16), MKC-19-Base (500-57287-20), MKC-20-Base (500-57287-24), MKC-21-Base (500-57287-28)

Method(s) 8082: The following sample was diluted to bring the concentration of target analytes within the calibration range: MKC-16-Base (500-57287-8). Elevated reporting limits (RLs) are provided.

Method(s) 8082: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: MKC-16-Base (500-57287-8).

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-15-Base

Lab Sample ID: 500-57287-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	87		21	8.1	ug/Kg	1	☼	8082	Total/NA
PCB-1254	87		21	4.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: MKC-16-Base

Lab Sample ID: 500-57287-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	4200		420	90	ug/Kg	20	☼	8082	Total/NA

Client Sample ID: MKC-17-Base

Lab Sample ID: 500-57287-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	130		20	4.3	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: MKC-18-Base

Lab Sample ID: 500-57287-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	13	J	21	8.1	ug/Kg	1	☼	8082	Total/NA
PCB-1254	15	J	21	4.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: MKC-19-Base

Lab Sample ID: 500-57287-20

No Detections.

Client Sample ID: MKC-20-Base

Lab Sample ID: 500-57287-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	9.3	J	20	4.4	ug/Kg	1	☼	8082	Total/NA

Client Sample ID: MKC-21-Base

Lab Sample ID: 500-57287-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	77		20	7.7	ug/Kg	1	☼	8082	Total/NA
PCB-1254	80		20	4.2	ug/Kg	1	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-57287-4	MKC-15-Base	Solid	05/21/13 14:25	05/22/13 11:40
500-57287-8	MKC-16-Base	Solid	05/21/13 14:40	05/22/13 11:40
500-57287-12	MKC-17-Base	Solid	05/21/13 14:45	05/22/13 11:40
500-57287-16	MKC-18-Base	Solid	05/21/13 15:05	05/22/13 11:40
500-57287-20	MKC-19-Base	Solid	05/21/13 15:15	05/22/13 11:40
500-57287-24	MKC-20-Base	Solid	05/21/13 15:20	05/22/13 11:40
500-57287-28	MKC-21-Base	Solid	05/21/13 15:26	05/22/13 11:40



Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-15-Base

Lab Sample ID: 500-57287-4

Date Collected: 05/21/13 14:25

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.3		21	7.3	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1221	<9.0		21	9.0	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1232	<8.9		21	8.9	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1242	<6.7		21	6.7	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1248	87		21	8.1	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1254	87		21	4.4	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
PCB-1260	<10		21	10	ug/Kg	☼	05/23/13 07:16	05/24/13 10:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	90		50 - 116				05/23/13 07:16	05/24/13 10:27	1
DCB Decachlorobiphenyl	100		48 - 142				05/23/13 07:16	05/24/13 10:27	1

Client Sample ID: MKC-16-Base

Lab Sample ID: 500-57287-8

Date Collected: 05/21/13 14:40

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<150		420	150	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1221	<180		420	180	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1232	<180		420	180	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1242	<140		420	140	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1248	<160		420	160	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1254	4200		420	90	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
PCB-1260	<210		420	210	ug/Kg	☼	05/23/13 07:16	05/23/13 18:47	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116				05/23/13 07:16	05/23/13 18:47	20
DCB Decachlorobiphenyl	0	D	48 - 142				05/23/13 07:16	05/23/13 18:47	20

Client Sample ID: MKC-17-Base

Lab Sample ID: 500-57287-12

Date Collected: 05/21/13 14:45

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1232	<8.7		20	8.7	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1248	<7.9		20	7.9	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1254	130		20	4.3	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
PCB-1260	<9.8		20	9.8	ug/Kg	☼	05/23/13 07:16	05/23/13 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		50 - 116				05/23/13 07:16	05/23/13 19:57	1
DCB Decachlorobiphenyl	106		48 - 142				05/23/13 07:16	05/23/13 19:57	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-18-Base

Lab Sample ID: 500-57287-16

Date Collected: 05/21/13 15:05

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.4

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.2		21	7.2	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1221	<9.0		21	9.0	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1232	<8.9		21	8.9	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1242	<6.7		21	6.7	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1248	13	J	21	8.1	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1254	15	J	21	4.4	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
PCB-1260	<10		21	10	ug/Kg	☼	05/23/13 07:16	05/24/13 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		50 - 116				05/23/13 07:16	05/24/13 11:09	1
DCB Decachlorobiphenyl	101		48 - 142				05/23/13 07:16	05/24/13 11:09	1

Client Sample ID: MKC-19-Base

Lab Sample ID: 500-57287-20

Date Collected: 05/21/13 15:15

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 74.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.5		21	7.5	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1221	<9.4		21	9.4	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1232	<9.3		21	9.3	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1242	<7.0		21	7.0	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1248	<8.4		21	8.4	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1254	<4.6		21	4.6	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
PCB-1260	<10		21	10	ug/Kg	☼	05/23/13 07:22	05/24/13 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97		50 - 116				05/23/13 07:22	05/24/13 20:42	1
DCB Decachlorobiphenyl	99		48 - 142				05/23/13 07:22	05/24/13 20:42	1

Client Sample ID: MKC-20-Base

Lab Sample ID: 500-57287-24

Date Collected: 05/21/13 15:20

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.2		20	7.2	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1221	<8.9		20	8.9	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1232	<8.8		20	8.8	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1242	<6.7		20	6.7	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1248	<8.0		20	8.0	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1254	9.3	J	20	4.4	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
PCB-1260	<10		20	10	ug/Kg	☼	05/23/13 07:22	05/24/13 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		50 - 116				05/23/13 07:22	05/24/13 16:58	1
DCB Decachlorobiphenyl	100		48 - 142				05/23/13 07:22	05/24/13 16:58	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-21-Base

Lab Sample ID: 500-57287-28

Date Collected: 05/21/13 15:26

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.7

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		20	6.9	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1221	<8.6		20	8.6	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1232	<8.5		20	8.5	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1242	<6.4		20	6.4	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1248	77		20	7.7	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1254	80		20	4.2	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1
PCB-1260	<9.6		20	9.6	ug/Kg	☼	05/23/13 07:22	05/24/13 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		50 - 116	05/23/13 07:22	05/24/13 17:54	1
DCB Decachlorobiphenyl	101		48 - 142	05/23/13 07:22	05/24/13 17:54	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

GC Semi VOA

Prep Batch: 187215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57287-4	MKC-15-Base	Total/NA	Solid	3541	
500-57287-8	MKC-16-Base	Total/NA	Solid	3541	
500-57287-12	MKC-17-Base	Total/NA	Solid	3541	
500-57287-16	MKC-18-Base	Total/NA	Solid	3541	
LCS 500-187215/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-187215/1-A	Method Blank	Total/NA	Solid	3541	

Prep Batch: 187216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57287-20	MKC-19-Base	Total/NA	Solid	3541	
500-57287-24	MKC-20-Base	Total/NA	Solid	3541	
500-57287-28	MKC-21-Base	Total/NA	Solid	3541	
LCS 500-187216/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-187216/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 187317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57287-4	MKC-15-Base	Total/NA	Solid	8082	187215
500-57287-8	MKC-16-Base	Total/NA	Solid	8082	187215
500-57287-12	MKC-17-Base	Total/NA	Solid	8082	187215
500-57287-16	MKC-18-Base	Total/NA	Solid	8082	187215
500-57287-20	MKC-19-Base	Total/NA	Solid	8082	187216
500-57287-24	MKC-20-Base	Total/NA	Solid	8082	187216
500-57287-28	MKC-21-Base	Total/NA	Solid	8082	187216
LCS 500-187215/2-A	Lab Control Sample	Total/NA	Solid	8082	187215
LCS 500-187216/2-A	Lab Control Sample	Total/NA	Solid	8082	187216
MB 500-187215/1-A	Method Blank	Total/NA	Solid	8082	187215
MB 500-187216/1-A	Method Blank	Total/NA	Solid	8082	187216

General Chemistry

Analysis Batch: 187133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57287-4	MKC-15-Base	Total/NA	Solid	Moisture	
500-57287-8	MKC-16-Base	Total/NA	Solid	Moisture	
500-57287-12	MKC-17-Base	Total/NA	Solid	Moisture	
500-57287-16	MKC-18-Base	Total/NA	Solid	Moisture	
500-57287-20	MKC-19-Base	Total/NA	Solid	Moisture	
500-57287-24	MKC-20-Base	Total/NA	Solid	Moisture	

Analysis Batch: 187135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-57287-28	MKC-21-Base	Total/NA	Solid	Moisture	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-116)	DCB1 (48-142)
500-57287-4	MKC-15-Base	90	100
500-57287-8	MKC-16-Base	0 D	0 D
500-57287-12	MKC-17-Base	99	106
500-57287-16	MKC-18-Base	75	101
500-57287-20	MKC-19-Base	97	99
500-57287-24	MKC-20-Base	88	100
500-57287-28	MKC-21-Base	89	101
LCS 500-187215/2-A	Lab Control Sample	93	111
LCS 500-187216/2-A	Lab Control Sample	102	111
MB 500-187215/1-A	Method Blank	92	108
MB 500-187216/1-A	Method Blank	107	112

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-187215/1-A

Matrix: Solid

Analysis Batch: 187317

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/23/13 07:16	05/23/13 15:16	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/23/13 07:16	05/23/13 15:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		50 - 116	05/23/13 07:16	05/23/13 15:16	1
DCB Decachlorobiphenyl	108		48 - 142	05/23/13 07:16	05/23/13 15:16	1

Lab Sample ID: LCS 500-187215/2-A

Matrix: Solid

Analysis Batch: 187317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	152		ug/Kg		91	59 - 110
PCB-1260	167	160		ug/Kg		95	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	93		50 - 116
DCB Decachlorobiphenyl	111		48 - 142

Lab Sample ID: MB 500-187216/1-A

Matrix: Solid

Analysis Batch: 187317

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 187216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/23/13 07:22	05/24/13 14:11	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/23/13 07:22	05/24/13 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		50 - 116	05/23/13 07:22	05/24/13 14:11	1
DCB Decachlorobiphenyl	112		48 - 142	05/23/13 07:22	05/24/13 14:11	1

Lab Sample ID: LCS 500-187216/2-A

Matrix: Solid

Analysis Batch: 187317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	159		ug/Kg		95	59 - 110

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 500-187216/2-A

Matrix: Solid

Analysis Batch: 187317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 187216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1260	167	172		ug/Kg		103	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	102		50 - 116
DCB Decachlorobiphenyl	111		48 - 142



Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-15-Base

Lab Sample ID: 500-57287-4

Date Collected: 05/21/13 14:25

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187215	05/23/13 07:16	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/24/13 10:27	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Client Sample ID: MKC-16-Base

Lab Sample ID: 500-57287-8

Date Collected: 05/21/13 14:40

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187215	05/23/13 07:16	STW	TAL CHI
Total/NA	Analysis	8082		20	187317	05/23/13 18:47	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Client Sample ID: MKC-17-Base

Lab Sample ID: 500-57287-12

Date Collected: 05/21/13 14:45

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187215	05/23/13 07:16	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/23/13 19:57	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Client Sample ID: MKC-18-Base

Lab Sample ID: 500-57287-16

Date Collected: 05/21/13 15:05

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187215	05/23/13 07:16	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/24/13 11:09	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Client Sample ID: MKC-19-Base

Lab Sample ID: 500-57287-20

Date Collected: 05/21/13 15:15

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187216	05/23/13 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/24/13 20:42	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Client Sample ID: MKC-20-Base

Lab Sample ID: 500-57287-24

Date Collected: 05/21/13 15:20

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187216	05/23/13 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/24/13 16:58	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187133	05/22/13 12:35	CMV	TAL CHI

Client Sample ID: MKC-21-Base

Lab Sample ID: 500-57287-28

Date Collected: 05/21/13 15:26

Matrix: Solid

Date Received: 05/22/13 11:40

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			187216	05/23/13 07:22	STW	TAL CHI
Total/NA	Analysis	8082		1	187317	05/24/13 17:54	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	187135	05/22/13 13:10	CMV	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00006

TestAmerica Job ID: 500-57287-2

Laboratory: TestAmerica Chicago


All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	05-31-13
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	04-30-14
Georgia	State Program	4	939	04-30-14
Hawaii	State Program	9	N/A	04-30-14
Illinois	NELAP	5	100201	04-30-14
Indiana	State Program	5	C-IL-02	04-30-14
Iowa	State Program	7	82	05-01-14
Kansas	NELAP	7	E-10161	10-31-13
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-14
North Carolina DENR	State Program	4	291	12-31-13
North Dakota	State Program	8	R-194	04-30-14
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	05-31-13 *
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAP	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	07-15-13

* Expired certification is currently pending renewal and is considered valid.

Project Number/Name WI001283.0008.00006/Madison
 Project Location Madison, WI
 Laboratory TestAmerica University Park
 Project Manager Rebecca Robbenolt
 Sampler(s)/Affiliation Jay Reed/ARCADIS

ANALYSIS / METHOD / SIZE



500-57287 COC

PCBs

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	Remarks	Total
1 241-22-Wall	SO	5/21/13	X	MS/MSD	2
2 241-23-Wall		1416	X		1
3 DUP-01		-	X	Duplicate	1
4 MKC-15-Base		1425	X		1
5 241-1-Base		1429	X		1
6 241-8-Base		1430	X		1
7 241-15-Wall		1431	X		1
8 MKC-16-Base		1440	X		1
9 241-2-Base		1441	X		1
10 241-9-Base		1442	X		1
11 241-16-Wall		1443	X		1
12 MKC-17-Base		1445	X		1
13 241-3-Base		1446	X		1
14 241-10-Base		1447	X		1
15 241-17-Wall	↓	↓ 1448	X		1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 16

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>5/21/13</u>	Time: <u>1730</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>FA-CHE</u>	Date: <u>5/22/13</u>	Time: <u>1010</u>	Yes No N/A
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Lab Courier Other



0.6



Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD500-57287
Page 2 of 3Project Number/Name 111001283.0008.00006/Madison-KippProject Location Madison, WILaboratory Test America University ParkProject Manager Rebecca RabbenoltSampler(s)/Affiliation Jay Reed/ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE					Remarks	Total
16 MUC-18-Base	SO	5/21/13/1505		X						1
17 241-4-Base		1506		X						1
18 241-11-Base		1507		X						1
19 241-18-Wall		1508		X						1
20 MUC-19-Base		1515		X						1
21 241-5-Base		1516		X						1
22 241-12-Base		1517		X						1
23 241-19-Wall		1518		X						1
24 MUC -MUC-20-base		1520		X						1
25 241-6-Base		1521		X						1
26 241-13-Base		1522		X						1
27 241-20-Wall		1523		X						1
28 MUC-21-Base		1526		X						1
29 241-7-Base		1527		X						1
30 241-14-Base		1528		X						1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/Containers 15

Relinquished by: <u>[Signature]</u>	Organization: <u>ARCADIS</u>	Date: <u>5/21/13</u>	Time: <u>1730</u>	Seal Intact?
Received by: <u>[Signature]</u>	Organization: <u>TA-CHE</u>	Date: <u>5/22/13</u>	Time: <u>1010</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Relinquished by: _____	Organization: _____	Date: <u>/ /</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>/ /</u>	Time: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Lab Courier Other

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-57287-2

Login Number: 57287

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

