

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-76542-1  
Client Project/Site: MadisonKipp WI001368.0017.00001

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

Attn: Ms. Jennine Trask



Authorized for release by:  
5/16/2014 12:46:33 PM

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*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.*

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# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Job ID: 500-76542-1

### Laboratory: TestAmerica Chicago

#### Narrative

#### Job Narrative 500-76542-1

#### Comments

Sample results for 1 and 10 confirmed via re-analysis for PCB.

#### Receipt

The samples were received on 5/8/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

#### GC Semi VOA

Method(s) 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: Dup-02 (500-76542-10), RG-25 (500-76542-1), RG-26 (500-76542-2), RG-26 (500-76542-2 MS), RG-26 (500-76542-2 MSD), RG-28 (500-76542-4), RG-30 (500-76542-6), RG-31 (500-76542-7), RG-32 (500-76542-8). Elevated reporting limits (RLs) are provided.

Method(s) 8082: Surrogate recovery for the following samples was outside control limits: RG-26 (500-76542-2), RG-30 (500-76542-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: Dup-02 (500-76542-10), RG-25 (500-76542-1), RG-32 (500-76542-8). Because of this dilution, the surrogate spike concentrations in the samples were reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-25

Lab Sample ID: 500-76542-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	420000		47000	18000	ug/Kg	2000	☼	8082	Total/NA
PCB-1254	130000		47000	10000	ug/Kg	2000	☼	8082	Total/NA

## Client Sample ID: RG-26

Lab Sample ID: 500-76542-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	650		110	42	ug/Kg	5	☼	8082	Total/NA
PCB-1254	890		110	23	ug/Kg	5	☼	8082	Total/NA

## Client Sample ID: RG-27

Lab Sample ID: 500-76542-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	180		22	8.5	ug/Kg	1	☼	8082	Total/NA
PCB-1254	380		22	4.7	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: RG-28

Lab Sample ID: 500-76542-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	560		110	45	ug/Kg	5	☼	8082	Total/NA
PCB-1254	780		110	24	ug/Kg	5	☼	8082	Total/NA

## Client Sample ID: RG-29

Lab Sample ID: 500-76542-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	110		21	8.3	ug/Kg	1	☼	8082	Total/NA
PCB-1254	110		21	4.5	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: RG-30

Lab Sample ID: 500-76542-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	1700		240	94	ug/Kg	10	☼	8082	Total/NA
PCB-1254	1000		240	52	ug/Kg	10	☼	8082	Total/NA

## Client Sample ID: RG-31

Lab Sample ID: 500-76542-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	820		120	46	ug/Kg	5	☼	8082	Total/NA
PCB-1254	620		120	25	ug/Kg	5	☼	8082	Total/NA

## Client Sample ID: RG-32

Lab Sample ID: 500-76542-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	11000		1200	250	ug/Kg	50	☼	8082	Total/NA

## Client Sample ID: RG-33

Lab Sample ID: 500-76542-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	16	J	19	4.2	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: Dup-02

Lab Sample ID: 500-76542-10

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

**Client Sample ID: Dup-02 (Continued)**

**Lab Sample ID: 500-76542-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	27000		2100	830	ug/Kg	100	☼	8082	Total/NA
PCB-1254	16000		2100	460	ug/Kg	100	☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

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 WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-76542-1	RG-25	Solid	05/06/14 11:00	05/08/14 10:10
500-76542-2	RG-26	Solid	05/06/14 11:10	05/08/14 10:10
500-76542-3	RG-27	Solid	05/06/14 13:10	05/08/14 10:10
500-76542-4	RG-28	Solid	05/06/14 13:15	05/08/14 10:10
500-76542-5	RG-29	Solid	05/06/14 13:20	05/08/14 10:10
500-76542-6	RG-30	Solid	05/06/14 13:25	05/08/14 10:10
500-76542-7	RG-31	Solid	05/06/14 14:25	05/08/14 10:10
500-76542-8	RG-32	Solid	05/06/14 14:30	05/08/14 10:10
500-76542-9	RG-33	Solid	05/06/14 14:35	05/08/14 10:10
500-76542-10	Dup-02	Solid	05/06/14 00:00	05/08/14 10:10



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-25

Date Collected: 05/06/14 11:00  
Date Received: 05/08/14 10:10

## Lab Sample ID: 500-76542-1

Matrix: Solid  
Percent Solids: 69.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<17000		47000	17000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
PCB-1221	<21000		47000	21000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
PCB-1232	<20000		47000	20000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
PCB-1242	<15000		47000	15000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
<b>PCB-1248</b>	<b>420000</b>		47000	18000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
<b>PCB-1254</b>	<b>130000</b>		47000	10000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
PCB-1260	<23000		47000	23000	ug/Kg	☼	05/12/14 07:00	05/14/14 16:09	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116				05/12/14 07:00	05/14/14 16:09	2000
DCB Decachlorobiphenyl	0	D	48 - 142				05/12/14 07:00	05/14/14 16:09	2000

## Client Sample ID: RG-26

Date Collected: 05/06/14 11:10  
Date Received: 05/08/14 10:10

## Lab Sample ID: 500-76542-2

Matrix: Solid  
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<38		110	38	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
PCB-1221	<47		110	47	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
PCB-1232	<46		110	46	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
PCB-1242	<35		110	35	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
<b>PCB-1248</b>	<b>650</b>		110	42	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
<b>PCB-1254</b>	<b>890</b>		110	23	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
PCB-1260	<52		110	52	ug/Kg	☼	05/14/14 07:27	05/15/14 09:36	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	126	X	50 - 116				05/14/14 07:27	05/15/14 09:36	5
DCB Decachlorobiphenyl	118		48 - 142				05/14/14 07:27	05/15/14 09:36	5

## Client Sample ID: RG-27

Date Collected: 05/06/14 13:10  
Date Received: 05/08/14 10:10

## Lab Sample ID: 500-76542-3

Matrix: Solid  
Percent Solids: 76.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.6		22	7.6	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
PCB-1221	<9.5		22	9.5	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
PCB-1232	<9.4		22	9.4	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
PCB-1242	<7.1		22	7.1	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
<b>PCB-1248</b>	<b>180</b>		22	8.5	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
<b>PCB-1254</b>	<b>380</b>		22	4.7	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
PCB-1260	<11		22	11	ug/Kg	☼	05/12/14 07:00	05/13/14 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116				05/12/14 07:00	05/13/14 19:29	1
DCB Decachlorobiphenyl	94		48 - 142				05/12/14 07:00	05/13/14 19:29	1

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-28

Lab Sample ID: 500-76542-4

Date Collected: 05/06/14 13:15

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 72.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<40		110	40	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
PCB-1221	<50		110	50	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
PCB-1232	<49		110	49	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
PCB-1242	<37		110	37	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
<b>PCB-1248</b>	<b>560</b>		110	45	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
<b>PCB-1254</b>	<b>780</b>		110	24	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
PCB-1260	<55		110	55	ug/Kg	☼	05/12/14 07:00	05/14/14 15:01	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	99		50 - 116				05/12/14 07:00	05/14/14 15:01	5
DCB Decachlorobiphenyl	114		48 - 142				05/12/14 07:00	05/14/14 15:01	5

## Client Sample ID: RG-29

Lab Sample ID: 500-76542-5

Date Collected: 05/06/14 13:20

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.4		21	7.4	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
PCB-1221	<9.2		21	9.2	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
PCB-1232	<9.1		21	9.1	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
<b>PCB-1248</b>	<b>110</b>		21	8.3	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
<b>PCB-1254</b>	<b>110</b>		21	4.5	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
PCB-1260	<10		21	10	ug/Kg	☼	05/12/14 07:00	05/13/14 20:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	81		50 - 116				05/12/14 07:00	05/13/14 20:10	1
DCB Decachlorobiphenyl	99		48 - 142				05/12/14 07:00	05/13/14 20:10	1

## Client Sample ID: RG-30

Lab Sample ID: 500-76542-6

Date Collected: 05/06/14 13:25

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 67.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<85		240	85	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
PCB-1221	<110		240	110	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
PCB-1232	<100		240	100	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
PCB-1242	<79		240	79	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
<b>PCB-1248</b>	<b>1700</b>		240	94	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
<b>PCB-1254</b>	<b>1000</b>		240	52	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
PCB-1260	<120		240	120	ug/Kg	☼	05/12/14 07:00	05/14/14 15:14	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	120	X	50 - 116				05/12/14 07:00	05/14/14 15:14	10
DCB Decachlorobiphenyl	153	X	48 - 142				05/12/14 07:00	05/14/14 15:14	10

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# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-31

Lab Sample ID: 500-76542-7

Date Collected: 05/06/14 14:25

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 66.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<41		120	41	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
PCB-1221	<52		120	52	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
PCB-1232	<51		120	51	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
PCB-1242	<39		120	39	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
<b>PCB-1248</b>	<b>820</b>		120	46	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
<b>PCB-1254</b>	<b>620</b>		120	25	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
PCB-1260	<58		120	58	ug/Kg	☼	05/12/14 07:00	05/14/14 15:28	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	109		50 - 116				05/12/14 07:00	05/14/14 15:28	5
DCB Decachlorobiphenyl	136		48 - 142				05/12/14 07:00	05/14/14 15:28	5

## Client Sample ID: RG-32

Lab Sample ID: 500-76542-8

Date Collected: 05/06/14 14:30

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 70.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<410		1200	410	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
PCB-1221	<510		1200	510	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
PCB-1232	<500		1200	500	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
PCB-1242	<380		1200	380	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
PCB-1248	<450		1200	450	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
<b>PCB-1254</b>	<b>11000</b>		1200	250	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
PCB-1260	<570		1200	570	ug/Kg	☼	05/12/14 07:00	05/14/14 15:42	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116				05/12/14 07:00	05/14/14 15:42	50
DCB Decachlorobiphenyl	0	D	48 - 142				05/12/14 07:00	05/14/14 15:42	50

## Client Sample ID: RG-33

Lab Sample ID: 500-76542-9

Date Collected: 05/06/14 14:35

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 82.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.8		19	6.8	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
<b>PCB-1254</b>	<b>16 J</b>		19	4.2	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	05/12/14 07:00	05/13/14 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		50 - 116				05/12/14 07:00	05/13/14 21:05	1
DCB Decachlorobiphenyl	101		48 - 142				05/12/14 07:00	05/13/14 21:05	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

**Client Sample ID: Dup-02**

**Lab Sample ID: 500-76542-10**

**Date Collected: 05/06/14 00:00**

**Matrix: Solid**

**Date Received: 05/08/14 10:10**

**Percent Solids: 76.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<750		2100	750	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
PCB-1221	<930		2100	930	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
PCB-1232	<920		2100	920	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
PCB-1242	<690		2100	690	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
<b>PCB-1248</b>	<b>27000</b>		2100	830	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
<b>PCB-1254</b>	<b>16000</b>		2100	460	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100
PCB-1260	<1000		2100	1000	ug/Kg	☼	05/12/14 07:00	05/14/14 15:55	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	0	D	50 - 116	05/12/14 07:00	05/14/14 15:55	100
<i>DCB Decachlorobiphenyl</i>	0	D	48 - 142	05/12/14 07:00	05/14/14 15:55	100

# Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
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.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## 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)
Dil Fac	Dilution Factor
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)
NC	Not Calculated
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 WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## GC Semi VOA

### Prep Batch: 235744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-1	RG-25	Total/NA	Solid	3541	
500-76542-3	RG-27	Total/NA	Solid	3541	
500-76542-4	RG-28	Total/NA	Solid	3541	
500-76542-5	RG-29	Total/NA	Solid	3541	
500-76542-6	RG-30	Total/NA	Solid	3541	
500-76542-7	RG-31	Total/NA	Solid	3541	
500-76542-8	RG-32	Total/NA	Solid	3541	
500-76542-9	RG-33	Total/NA	Solid	3541	
500-76542-10	Dup-02	Total/NA	Solid	3541	
LCS 500-235744/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-235744/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 235967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-1	RG-25	Total/NA	Solid	8082	235744
500-76542-3	RG-27	Total/NA	Solid	8082	235744
500-76542-4	RG-28	Total/NA	Solid	8082	235744
500-76542-5	RG-29	Total/NA	Solid	8082	235744
500-76542-6	RG-30	Total/NA	Solid	8082	235744
500-76542-7	RG-31	Total/NA	Solid	8082	235744
500-76542-8	RG-32	Total/NA	Solid	8082	235744
500-76542-9	RG-33	Total/NA	Solid	8082	235744
500-76542-10	Dup-02	Total/NA	Solid	8082	235744
LCS 500-235744/3-A	Lab Control Sample	Total/NA	Solid	8082	235744
MB 500-235744/1-A	Method Blank	Total/NA	Solid	8082	235744

### Prep Batch: 236136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-2	RG-26	Total/NA	Solid	3541	
500-76542-2 MS	RG-26	Total/NA	Solid	3541	
500-76542-2 MSD	RG-26	Total/NA	Solid	3541	
LCS 500-236136/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-236136/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 236164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-2	RG-26	Total/NA	Solid	8082	236136
500-76542-2 MS	RG-26	Total/NA	Solid	8082	236136
500-76542-2 MSD	RG-26	Total/NA	Solid	8082	236136
LCS 500-236136/2-A	Lab Control Sample	Total/NA	Solid	8082	236136
MB 500-236136/1-A	Method Blank	Total/NA	Solid	8082	236136

## General Chemistry

### Analysis Batch: 235364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-1	RG-25	Total/NA	Solid	Moisture	
500-76542-2	RG-26	Total/NA	Solid	Moisture	
500-76542-2 DU	RG-26	Total/NA	Solid	Moisture	
500-76542-2 MS	RG-26	Total/NA	Solid	Moisture	

TestAmerica Chicago

# QC Association Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## General Chemistry (Continued)

### Analysis Batch: 235364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-76542-2 MSD	RG-26	Total/NA	Solid	Moisture	
500-76542-3	RG-27	Total/NA	Solid	Moisture	
500-76542-4	RG-28	Total/NA	Solid	Moisture	
500-76542-5	RG-29	Total/NA	Solid	Moisture	
500-76542-6	RG-30	Total/NA	Solid	Moisture	
500-76542-7	RG-31	Total/NA	Solid	Moisture	
500-76542-8	RG-32	Total/NA	Solid	Moisture	
500-76542-9	RG-33	Total/NA	Solid	Moisture	
500-76542-10	Dup-02	Total/NA	Solid	Moisture	

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## 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)
500-76542-1	RG-25	0 D	0 D
500-76542-2	RG-26	126 X	118
500-76542-2 MS	RG-26	109	93
500-76542-2 MSD	RG-26	115	112
500-76542-3	RG-27	82	94
500-76542-4	RG-28	99	114
500-76542-5	RG-29	81	99
500-76542-6	RG-30	120 X	153 X
500-76542-7	RG-31	109	136
500-76542-8	RG-32	0 D	0 D
500-76542-9	RG-33	79	101
500-76542-10	Dup-02	0 D	0 D
LCS 500-235744/3-A	Lab Control Sample	91	102
LCS 500-236136/2-A	Lab Control Sample	79	84
MB 500-235744/1-A	Method Blank	86	98
MB 500-236136/1-A	Method Blank	86	77

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

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

**Lab Sample ID: MB 500-235744/1-A**

**Matrix: Solid**

**Analysis Batch: 235967**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 235744**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/12/14 07:00	05/13/14 17:26	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/12/14 07:00	05/13/14 17:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	05/12/14 07:00	05/13/14 17:26	1
DCB Decachlorobiphenyl	98		48 - 142	05/12/14 07:00	05/13/14 17:26	1

**Lab Sample ID: LCS 500-235744/3-A**

**Matrix: Solid**

**Analysis Batch: 235967**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 235744**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	152		ug/Kg		91	59 - 110
PCB-1260	167	156		ug/Kg		94	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	91		50 - 116
DCB Decachlorobiphenyl	102		48 - 142

**Lab Sample ID: MB 500-236136/1-A**

**Matrix: Solid**

**Analysis Batch: 236164**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 236136**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/14/14 07:27	05/14/14 15:58	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/14/14 07:27	05/14/14 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	05/14/14 07:27	05/14/14 15:58	1
DCB Decachlorobiphenyl	77		48 - 142	05/14/14 07:27	05/14/14 15:58	1

**Lab Sample ID: LCS 500-236136/2-A**

**Matrix: Solid**

**Analysis Batch: 236164**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 236136**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	133		ug/Kg		80	59 - 110

TestAmerica Chicago



# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

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

**Lab Sample ID: LCS 500-236136/2-A**

**Matrix: Solid**

**Analysis Batch: 236164**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 236136**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1260	167	141		ug/Kg		85	69 - 120
		<b>LCS</b>	<b>LCS</b>				
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
Tetrachloro-m-xylene	79		50 - 116				
DCB Decachlorobiphenyl	84		48 - 142				

**Lab Sample ID: 500-76542-2 MS**

**Matrix: Solid**

**Analysis Batch: 236164**

**Client Sample ID: RG-26**

**Prep Type: Total/NA**

**Prep Batch: 236136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<38		214	512	F1	ug/Kg	☼	239	59 - 110
PCB-1260	<52		214	630	F1	ug/Kg	☼	294	69 - 120
		<b>MS</b>	<b>MS</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
Tetrachloro-m-xylene	109		50 - 116						
DCB Decachlorobiphenyl	93		48 - 142						

**Lab Sample ID: 500-76542-2 MSD**

**Matrix: Solid**

**Analysis Batch: 236164**

**Client Sample ID: RG-26**

**Prep Type: Total/NA**

**Prep Batch: 236136**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	<38		214	561	F1	ug/Kg	☼	262	59 - 110	9	30
PCB-1260	<52		214	684	F1	ug/Kg	☼	319	69 - 120	8	30
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
Tetrachloro-m-xylene	115		50 - 116								
DCB Decachlorobiphenyl	112		48 - 142								

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-25

Lab Sample ID: 500-76542-1

Date Collected: 05/06/14 11:00

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 69.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		2000	235967	05/14/14 16:09	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-26

Lab Sample ID: 500-76542-2

Date Collected: 05/06/14 11:10

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			236136	05/14/14 07:27	STW	TAL CHI
Total/NA	Analysis	8082		5	236164	05/15/14 09:36	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-27

Lab Sample ID: 500-76542-3

Date Collected: 05/06/14 13:10

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		1	235967	05/13/14 19:29	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-28

Lab Sample ID: 500-76542-4

Date Collected: 05/06/14 13:15

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		5	235967	05/14/14 15:01	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-29

Lab Sample ID: 500-76542-5

Date Collected: 05/06/14 13:20

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		1	235967	05/13/14 20:10	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Client Sample ID: RG-30

Lab Sample ID: 500-76542-6

Date Collected: 05/06/14 13:25

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 67.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		10	235967	05/14/14 15:14	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-31

Lab Sample ID: 500-76542-7

Date Collected: 05/06/14 14:25

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 66.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		5	235967	05/14/14 15:28	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-32

Lab Sample ID: 500-76542-8

Date Collected: 05/06/14 14:30

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 70.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		50	235967	05/14/14 15:42	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: RG-33

Lab Sample ID: 500-76542-9

Date Collected: 05/06/14 14:35

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		1	235967	05/13/14 21:05	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

## Client Sample ID: Dup-02

Lab Sample ID: 500-76542-10

Date Collected: 05/06/14 00:00

Matrix: Solid

Date Received: 05/08/14 10:10

Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			235744	05/12/14 07:00	STW	TAL CHI
Total/NA	Analysis	8082		100	235967	05/14/14 15:55	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	235364	05/08/14 15:17	LWN	TAL CHI

**Laboratory References:**

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

TestAmerica Chicago

# Certification Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0017.00001

TestAmerica Job ID: 500-76542-1

## Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

1

2

3

4

5

6

7

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9

10

11

12

13

14

15

ID#: \_\_\_\_\_

# CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order # 500-76542

Send Results to:	Contact & Company Name: <u>Jennine Trade/ARCADIS</u>	Telephone: <u>414-276-7742</u>	Preservative: -						
	Address:	Fax:	Filtered (✓): -						
	City: _____ State: _____ Zip: _____	E-mail Address: <u>jennine.trade@arcadis-us.com</u>	# of Containers: <u>1</u>						
	Project Name/Location (City, State): <u>Medison Kipp/Medison, WI</u>	Project #: <u>W1001368.0017.00001</u>	Container Information: <u>4.0Z.</u>						

- Keys**
- Preservation Key:**  
 A. H<sub>2</sub>SO<sub>4</sub>  
 B. HCL  
 C. HNO<sub>3</sub>  
 D. NaOH  
 E. None  
 F. Other: \_\_\_\_\_  
 G. Other: \_\_\_\_\_  
 H. Other: \_\_\_\_\_
- Container Information Key:**  
 1. 40 ml Vial  
 2. 1 L Amber  
 3. 250 ml Plastic  
 4. 500 ml Plastic  
 5. Encore  
 6. 2 oz. Glass  
 7. 4 oz. Glass  
 8. 8 oz. Glass  
 9. Other: \_\_\_\_\_  
 10. Other: \_\_\_\_\_
- Matrix Key:**  
 SO - Soil      SE - Sediment      NL - NAPL/Oil  
 W - Water      SL - Sludge      SW - Sample Wipe  
 T - Tissue      A - Air      Other: \_\_\_\_\_

Sample ID	Collection		Type (✓)		Matrix	REMARKS
	Date	Time	Comp	Grab		
1 RG-25	5/6/14	1100	✓	SO	X	MS/MSD
2 RG-26		1110	✓		X	
3 RG-27		1310	✓		X	
4 RG-28		1315	✓		X	
5 RG-29		1320	✓		X	
6 RG-30		1325	✓		X	
7 RG-31		1425	✓		X	
8 RG-32		1430	✓		X	
9 RG-33		1435	✓		X	
10 DUP-02		-	✓		X	



500-76542 COC

Special Instructions/Comments: 5 Day TAT       Special QA/QC Instructions(✓):

<b>Laboratory Information and Receipt</b>		<b>Relinquished By</b>		<b>Received By</b>		<b>Relinquished By</b>		<b>Laboratory Received By</b>	
Lab Name: <u>TestAmerica</u>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Jay Reed</u>	Signature: <i>[Signature]</i>	Printed Name: <u>S. Kelsey</u>	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: Condition/Cooler Temp: <u>1.9</u>	Firm: <u>ARCADIS</u>	Date/Time: <u>5/7/14 1500</u>	Firm/Courier: <u>TAL/Chicago</u>	Date/Time: <u>05/08/14 @ 1010</u>	Firm/Courier:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: <u>5-Day TAT</u>	Shipping Tracking #: <u>8052-7526-9076</u>								

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-76542-1

**Login Number: 76542**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Kelsey, Shawn M**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	1.9c
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.	True	
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

