

# 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: 500-66851-1  
Client Project/Site: MadisonKipp WI001368.0010.00001

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

Attn: Chris Kubacki



Authorized for release by:  
11/26/2013 3:07:00 PM  
Bonnie Stadelmann, Senior Project Manager  
[bonnie.stadelmann@testamericainc.com](mailto:bonnie.stadelmann@testamericainc.com)  
Designee for  
Sandie Fredrick, Project Manager II  
(920)261-1660  
[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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 . . . . .	7
Sample Summary . . . . .	8
Client Sample Results . . . . .	9
Definitions . . . . .	30
QC Association . . . . .	31
Surrogate Summary . . . . .	34
QC Sample Results . . . . .	36
Chronicle . . . . .	48
Certification Summary . . . . .	51
Chain of Custody . . . . .	52
Receipt Checklists . . . . .	53

# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Job ID: 500-66851-1

### Laboratory: TestAmerica Chicago

#### Narrative

#### Job Narrative 500-66851-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/14/2013 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

#### GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following samples and prep blank (LB3) in analytical batch 21306 were outside the upper control limit: 237-1 (0-2) (500-66851-2), 237-2 (0-2) (500-66851-4), 237-3 (0-2) (500-66851-6), 237-3 (2-4) (500-66851-7), 237-4 (0-2) (500-66851-8), 237-4 (2-4) (500-66851-9). The samples did not contain any target analytes; therefore, re-analysis was not performed.

Method(s) 8260B: The laboratory control samples (LCS) for batches 21305 and 21306 recovered outside control limits for the following analytes: 1,2-Dichloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8082: TCX recovery for the following sample was outside control limits: 237-1 (2-4) (500-66851-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 212474 recovered outside control limits for the following analytes: AR1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. EB (500-66851-11)

Method(s) 8082: The continuing calibration verifications (CCV) associated with batch 212474 recovered above the upper control limit for AR1260. The sample associated with this CCV was a non-detect for the affected analytes; therefore, the data have been reported. The following samples are impacted: EB (500-66851-11).

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 WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: Trip Blank

Lab Sample ID: 500-66851-1

No Detections.

## Client Sample ID: 237-1 (0-2)

Lab Sample ID: 500-66851-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.6	J	38	6.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	31	J	38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	36	J	38	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	43		38	8.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	30	J	38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	23	J	38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	38		38	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	14	J	38	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	66		38	7.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	23	J	38	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	37	J	38	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	49		38	7.7	ug/Kg	1	☼	8270D	Total/NA

## Client Sample ID: 237-1 (2-4)

Lab Sample ID: 500-66851-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5.8	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	11	J	37	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	11	J	37	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	10	J	37	6.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	5.3	J	37	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	8.2	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA

## Client Sample ID: 237-2 (0-2)

Lab Sample ID: 500-66851-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	18	J	38	6.9	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	7.0	J	38	5.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	47		38	6.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	150		38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	140		38	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		38	8.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120		38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	76		38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	180		38	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	37	J	38	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	310		38	7.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	19	J	38	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	93		38	9.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	6.3	J	38	5.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	220		38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	270		38	7.6	ug/Kg	1	☼	8270D	Total/NA

## Client Sample ID: 237-2 (2-4)

Lab Sample ID: 500-66851-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.5	J	36	4.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-2 (2-4) (Continued)

Lab Sample ID: 500-66851-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	9.2	J	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	13	J	36	7.9	ug/Kg	1	☼	8270D	Total/NA
Chrysene	10	J	36	9.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	17	J	36	6.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	9.0	J	36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	14	J	36	7.2	ug/Kg	1	☼	8270D	Total/NA

## Client Sample ID: 237-3 (0-2)

Lab Sample ID: 500-66851-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	18	J	39	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	75		39	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	73		39	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		39	8.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	56		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	39		39	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	90		39	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	23	J	39	7.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	160		39	7.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.5	J	39	5.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	51		39	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	98		39	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	130		39	7.8	ug/Kg	1	☼	8270D	Total/NA
PCB-1260	41		19	9.5	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: 237-3 (2-4)

Lab Sample ID: 500-66851-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19	J	38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	20	J	38	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	26	J	38	8.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	16	J	38	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	19	J	38	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	38		38	7.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	14	J	38	9.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	20	J	38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	28	J	38	7.6	ug/Kg	1	☼	8270D	Total/NA
PCB-1260	15	J	19	9.3	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: 237-4 (0-2)

Lab Sample ID: 500-66851-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	63		38	9.3	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	62	J	190	60	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	160		38	6.8	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	9.4	J	38	5.0	ug/Kg	1	☼	8270D	Total/NA
Anthracene	280		38	6.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	540		38	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	460		38	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	610		38	8.2	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-4 (0-2) (Continued)

Lab Sample ID: 500-66851-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	330		38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	200		38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	530		38	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz[a,h]anthracene	100		38	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1100		38	7.1	ug/Kg	1	☼	8270D	Total/NA
Fluorene	150		38	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	290		38	9.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	71		38	5.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	870		38	7.6	ug/Kg	1	☼	8270D	Total/NA
PCB-1260	28		19	9.5	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: 237-4 (2-4)

Lab Sample ID: 500-66851-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	11	J	37	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	25	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	25	J	37	8.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	19	J	37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	19	J	37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	26	J	37	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	51		37	6.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	17	J	37	9.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	43		37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	37		37	7.4	ug/Kg	1	☼	8270D	Total/NA
PCB-1248	21		19	7.4	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: DUP

Lab Sample ID: 500-66851-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	21		19	7.4	ug/Kg	1	☼	8082	Total/NA

## Client Sample ID: EB

Lab Sample ID: 500-66851-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
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.

TestAmerica Job ID: 500-66851-1

Project/Site: MadisonKipp WI001368.0010.00001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-66851-1	Trip Blank	Water	11/12/13 00:00	11/14/13 10:25
500-66851-2	237-1 (0-2)	Solid	11/12/13 12:00	11/14/13 10:25
500-66851-3	237-1 (2-4)	Solid	11/12/13 12:30	11/14/13 10:25
500-66851-4	237-2 (0-2)	Solid	11/12/13 13:50	11/14/13 10:25
500-66851-5	237-2 (2-4)	Solid	11/12/13 14:10	11/14/13 10:25
500-66851-6	237-3 (0-2)	Solid	11/12/13 15:05	11/14/13 10:25
500-66851-7	237-3 (2-4)	Solid	11/12/13 15:20	11/14/13 10:25
500-66851-8	237-4 (0-2)	Solid	11/12/13 15:00	11/14/13 10:25
500-66851-9	237-4 (2-4)	Solid	11/12/13 15:15	11/14/13 10:25
500-66851-10	DUP	Solid	11/12/13 00:00	11/14/13 10:25
500-66851-11	EB	Water	11/12/13 15:40	11/14/13 10:25



# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 500-66851-1**

**Date Collected: 11/12/13 00:00**

**Matrix: Water**

**Date Received: 11/14/13 10:25**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/21/13 23:46	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/21/13 23:46	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/21/13 23:46	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/21/13 23:46	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/21/13 23:46	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/21/13 23:46	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/21/13 23:46	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/21/13 23:46	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/21/13 23:46	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/21/13 23:46	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:46	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/21/13 23:46	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/21/13 23:46	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/21/13 23:46	1
1,2-Dichloroethane	<0.28 *		1.0	0.28	ug/L			11/21/13 23:46	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/21/13 23:46	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/21/13 23:46	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:46	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/21/13 23:46	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:46	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/21/13 23:46	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/21/13 23:46	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/21/13 23:46	1
Benzene	<0.074		0.50	0.074	ug/L			11/21/13 23:46	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/21/13 23:46	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/21/13 23:46	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/21/13 23:46	1
Bromoform	<0.28		1.0	0.28	ug/L			11/21/13 23:46	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/21/13 23:46	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/21/13 23:46	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:46	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/21/13 23:46	1
Chloroform	<0.20		1.0	0.20	ug/L			11/21/13 23:46	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/21/13 23:46	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/21/13 23:46	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/21/13 23:46	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/21/13 23:46	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/21/13 23:46	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/21/13 23:46	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/21/13 23:46	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/21/13 23:46	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/21/13 23:46	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:46	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/21/13 23:46	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/21/13 23:46	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/21/13 23:46	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/21/13 23:46	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/21/13 23:46	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/21/13 23:46	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: Trip Blank

Lab Sample ID: 500-66851-1

Date Collected: 11/12/13 00:00

Matrix: Water

Date Received: 11/14/13 10:25

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:46	1
Styrene	<0.10		1.0	0.10	ug/L			11/21/13 23:46	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:46	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/21/13 23:46	1
Toluene	<0.11		0.50	0.11	ug/L			11/21/13 23:46	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/21/13 23:46	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/21/13 23:46	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/21/13 23:46	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/21/13 23:46	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/21/13 23:46	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/21/13 23:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	124		75 - 125					11/21/13 23:46	1
4-Bromofluorobenzene (Surr)	106		75 - 120					11/21/13 23:46	1
Dibromofluoromethane	95		75 - 120					11/21/13 23:46	1
Toluene-d8 (Surr)	97		75 - 120					11/21/13 23:46	1

## Client Sample ID: 237-1 (0-2)

Lab Sample ID: 500-66851-2

Date Collected: 11/12/13 12:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 83.0

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		150	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1,1-Trichloroethane	<15		75	15	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1,2,2-Tetrachloroethane	<18		75	18	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1,2-Trichloroethane	<21		75	21	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1-Dichloroethane	<14		75	14	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1-Dichloroethene	<23		75	23	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,1-Dichloropropene	<26		75	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2,3-Trichlorobenzene	<26		150	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2,3-Trichloropropane	<43		150	43	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2,4-Trichlorobenzene	<29		150	29	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2-Dibromo-3-Chloropropane	<66		150	66	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2-Dichloroethane	<22 *		75	22	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,2-Dichloropropane	<15		75	15	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,3-Dichloropropane	<10		75	10	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
2,2-Dichloropropane	<24		75	24	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
2-Chlorotoluene	<16		75	16	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
4-Chlorotoluene	<15		75	15	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Benzene	<5.6		19	5.6	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Bromobenzene	<32		150	32	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Bromochloromethane	<29		150	29	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-1 (0-2)**

**Lab Sample ID: 500-66851-2**

**Date Collected: 11/12/13 12:00**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 83.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<26		150	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Bromoform	<33		150	33	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Bromomethane	<51		150	51	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Carbon tetrachloride	<19		75	19	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Chlorobenzene	<11		75	11	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Chloroethane	<33		150	33	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Chloroform	<15		75	15	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Chloromethane	<35		150	35	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
cis-1,2-Dichloroethene	<9.3		75	9.3	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
cis-1,3-Dichloropropene	<13		75	13	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Dibromomethane	<36		150	36	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Dichlorodifluoromethane	<39		150	39	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Ethylbenzene	<9.5		19	9.5	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Isopropyl ether	<11		150	11	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Methyl tert-butyl ether	<32		150	32	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Methylene Chloride	<52		380	52	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Naphthalene	<37		150	37	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
n-Butylbenzene	<9.7		75	9.7	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
sec-Butylbenzene	<12		75	12	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Styrene	<7.5		75	7.5	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
tert-Butylbenzene	<10		75	10	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Tetrachloroethene	<13		75	13	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Toluene	<8.7		19	8.7	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
trans-1,2-Dichloroethene	<19		75	19	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
trans-1,3-Dichloropropene	<16		75	16	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Trichloroethene	<14		38	14	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Trichlorofluoromethane	<31		150	31	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Vinyl chloride	<7.9		19	7.9	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50
Xylenes, Total	<5.2		38	5.2	ug/Kg	☼	11/12/13 12:00	11/22/13 01:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126	X	75 - 125	11/12/13 12:00	11/22/13 01:00	50
4-Bromofluorobenzene (Surr)	109		75 - 120	11/12/13 12:00	11/22/13 01:00	50
Dibromofluoromethane	93		75 - 120	11/12/13 12:00	11/22/13 01:00	50
Toluene-d8 (Surr)	98		75 - 120	11/12/13 12:00	11/22/13 01:00	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.4		38	9.4	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
2-Methylnaphthalene	<61		190	61	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
<b>Anthracene</b>	<b>6.6</b>	<b>J</b>	38	6.4	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
<b>Benzo[a]anthracene</b>	<b>31</b>	<b>J</b>	38	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
<b>Benzo[a]pyrene</b>	<b>36</b>	<b>J</b>	38	7.5	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-1 (0-2)**

**Lab Sample ID: 500-66851-2**

Date Collected: 11/12/13 12:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 83.0

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	43		38	8.3	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Benzo[g,h,i]perylene	30	J	38	12	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Benzo[k]fluoranthene	23	J	38	11	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Chrysene	38		38	11	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Dibenz(a,h)anthracene	14	J	38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Fluoranthene	66		38	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Indeno[1,2,3-cd]pyrene	23	J	38	10	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Phenanthrene	37	J	38	5.4	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
Pyrene	49		38	7.7	ug/Kg	☼	11/19/13 07:25	11/21/13 19:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	61		25 - 119				11/19/13 07:25	11/21/13 19:55	1
Nitrobenzene-d5 (Surr)	59		25 - 115				11/19/13 07:25	11/21/13 19:55	1
Terphenyl-d14 (Surr)	69		36 - 134				11/19/13 07:25	11/21/13 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	11/18/13 07:30	11/19/13 16:26	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	64		50 - 116				11/18/13 07:30	11/19/13 16:26	1
DCB Decachlorobiphenyl	75		48 - 142				11/18/13 07:30	11/19/13 16:26	1

**Client Sample ID: 237-1 (2-4)**

**Lab Sample ID: 500-66851-3**

Date Collected: 11/12/13 12:30

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.2

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		130	23	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1,1-Trichloroethane	<13		65	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1,2,2-Tetrachloroethane	<15		65	15	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1,2-Trichloroethane	<18		65	18	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1-Dichloroethane	<12		65	12	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1-Dichloroethene	<20		65	20	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,1-Dichloropropene	<22		65	22	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2,3-Trichlorobenzene	<23		130	23	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2,4-Trichlorobenzene	<25		130	25	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2-Dibromo-3-Chloropropane	<57		130	57	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-1 (2-4)**

**Lab Sample ID: 500-66851-3**

**Date Collected: 11/12/13 12:30**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 86.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2-Dichloroethane	<19	*	65	19	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,2-Dichloropropane	<13		65	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,3-Dichloropropane	<8.7		65	8.7	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
2,2-Dichloropropane	<21		65	21	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
2-Chlorotoluene	<13		65	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
4-Chlorotoluene	<13		65	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Benzene	<4.8		16	4.8	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Bromobenzene	<28		130	28	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Bromochloromethane	<25		130	25	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Bromoform	<29		130	29	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Bromomethane	<44		130	44	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Carbon tetrachloride	<17		65	17	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Chlorobenzene	<9.3		65	9.3	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Chloroethane	<28		130	28	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Chloroform	<13		65	13	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Chloromethane	<30		130	30	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
cis-1,2-Dichloroethene	<8.0		65	8.0	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
cis-1,3-Dichloropropene	<12		65	12	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Dibromochloromethane	<23		130	23	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Dibromomethane	<31		130	31	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Ethylbenzene	<8.2		16	8.2	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Hexachlorobutadiene	<23		130	23	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Isopropyl ether	<9.6		130	9.6	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Methylene Chloride	<44		330	44	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Naphthalene	<32		130	32	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
n-Butylbenzene	<8.4		65	8.4	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
sec-Butylbenzene	<10		65	10	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Styrene	<6.4		65	6.4	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
tert-Butylbenzene	<8.8		65	8.8	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Tetrachloroethene	<11		65	11	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Toluene	<7.5		16	7.5	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
trans-1,2-Dichloroethene	<16		65	16	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
trans-1,3-Dichloropropene	<14		65	14	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Trichloroethene	<12		33	12	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Vinyl chloride	<6.8		16	6.8	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50
Xylenes, Total	<4.4		33	4.4	ug/Kg	☼	11/12/13 12:30	11/22/13 01:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		75 - 125	11/12/13 12:30	11/22/13 01:25	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-1 (2-4)

## Lab Sample ID: 500-66851-3

Date Collected: 11/12/13 12:30

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.2

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		75 - 120	11/12/13 12:30	11/22/13 01:25	50
Dibromofluoromethane	91		75 - 120	11/12/13 12:30	11/22/13 01:25	50
Toluene-d8 (Surr)	100		75 - 120	11/12/13 12:30	11/22/13 01:25	50

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		37	9.0	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
2-Methylnaphthalene	<59		190	59	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Acenaphthene	<6.6		37	6.6	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Anthracene	<6.2		37	6.2	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Benzo[a]anthracene</b>	<b>5.8</b>	<b>J</b>	37	5.0	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Benzo[a]pyrene	<7.1		37	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Benzo[b]fluoranthene</b>	<b>11</b>	<b>J</b>	37	8.0	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Benzo[g,h,i]perylene	<12		37	12	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Benzo[k]fluoranthene</b>	<b>11</b>	<b>J</b>	37	11	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Chrysene	<10		37	10	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Dibenz(a,h)anthracene	<7.1		37	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Fluoranthene</b>	<b>10</b>	<b>J</b>	37	6.8	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Indeno[1,2,3-cd]pyrene	<9.6		37	9.6	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Phenanthrene</b>	<b>5.3</b>	<b>J</b>	37	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1
<b>Pyrene</b>	<b>8.2</b>	<b>J</b>	37	7.3	ug/Kg	☼	11/19/13 07:25	11/21/13 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		25 - 119	11/19/13 07:25	11/21/13 20:16	1
Nitrobenzene-d5 (Surr)	79		25 - 115	11/19/13 07:25	11/21/13 20:16	1
Terphenyl-d14 (Surr)	76		36 - 134	11/19/13 07:25	11/21/13 20:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		19	6.6	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1
PCB-1260	<9.1		19	9.1	ug/Kg	☼	11/18/13 07:30	11/19/13 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	47	X	50 - 116	11/18/13 07:30	11/19/13 17:09	1
DCB Decachlorobiphenyl	68		48 - 142	11/18/13 07:30	11/19/13 17:09	1

TestAmerica Chicago



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-2 (0-2)**

**Lab Sample ID: 500-66851-4**

**Date Collected: 11/12/13 13:50**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 83.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1,1-Trichloroethane	<14		70	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1,2,2-Tetrachloroethane	<16		70	16	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1,2-Trichloroethane	<20		70	20	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1-Dichloroethane	<13		70	13	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1-Dichloroethene	<21		70	21	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,1-Dichloropropene	<24		70	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2-Dibromo-3-Chloropropane	<61		140	61	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2-Dichloroethane	<20 *		70	20	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,2-Dichloropropane	<14		70	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,3-Dichloropropane	<9.4		70	9.4	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
2,2-Dichloropropane	<22		70	22	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
2-Chlorotoluene	<14		70	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
4-Chlorotoluene	<14		70	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Benzene	<5.2		17	5.2	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Bromobenzene	<30		140	30	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Bromochloromethane	<26		140	26	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Bromoform	<31		140	31	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Bromomethane	<48		140	48	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Carbon tetrachloride	<18		70	18	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Chlorobenzene	<10		70	10	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Chloroethane	<30		140	30	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Chloroform	<14		70	14	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Chloromethane	<32		140	32	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
cis-1,2-Dichloroethene	<8.6		70	8.6	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
cis-1,3-Dichloropropene	<12		70	12	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Dibromomethane	<34		140	34	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Ethylbenzene	<8.8		17	8.8	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Isopropyl ether	<10		140	10	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Methylene Chloride	<48		350	48	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Naphthalene	<35		140	35	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
n-Butylbenzene	<9.0		70	9.0	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-2 (0-2)**

**Lab Sample ID: 500-66851-4**

**Date Collected: 11/12/13 13:50**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 83.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<11		70	11	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Styrene	<6.9		70	6.9	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
tert-Butylbenzene	<9.5		70	9.5	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Tetrachloroethene	<12		70	12	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Toluene	<8.0		17	8.0	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
trans-1,2-Dichloroethene	<17		70	17	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
trans-1,3-Dichloropropene	<15		70	15	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Trichloroethene	<13		35	13	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Vinyl chloride	<7.3		17	7.3	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
Xylenes, Total	<4.8		35	4.8	ug/Kg	☼	11/12/13 13:50	11/22/13 01:49	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	128	X	75 - 125				11/12/13 13:50	11/22/13 01:49	50
4-Bromofluorobenzene (Surr)	108		75 - 120				11/12/13 13:50	11/22/13 01:49	50
Dibromofluoromethane	92		75 - 120				11/12/13 13:50	11/22/13 01:49	50
Toluene-d8 (Surr)	100		75 - 120				11/12/13 13:50	11/22/13 01:49	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.4		38	9.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
2-Methylnaphthalene	<61		190	61	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Acenaphthene</b>	<b>18</b>	<b>J</b>	38	6.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Acenaphthylene</b>	<b>7.0</b>	<b>J</b>	38	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Anthracene</b>	<b>47</b>		38	6.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Benzo[a]anthracene</b>	<b>150</b>		38	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Benzo[a]pyrene</b>	<b>140</b>		38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Benzo[b]fluoranthene</b>	<b>200</b>		38	8.3	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Benzo[g,h,i]perylene</b>	<b>120</b>		38	12	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Benzo[k]fluoranthene</b>	<b>76</b>		38	11	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Chrysene</b>	<b>180</b>		38	10	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Dibenz(a,h)anthracene</b>	<b>37</b>	<b>J</b>	38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Fluoranthene</b>	<b>310</b>		38	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Fluorene</b>	<b>19</b>	<b>J</b>	38	5.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>93</b>		38	9.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Naphthalene</b>	<b>6.3</b>	<b>J</b>	38	5.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Phenanthrene</b>	<b>220</b>		38	5.3	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Pyrene</b>	<b>270</b>		38	7.6	ug/Kg	☼	11/19/13 07:25	11/21/13 20:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	62		25 - 119				11/19/13 07:25	11/21/13 20:38	1
Nitrobenzene-d5 (Surr)	53		25 - 115				11/19/13 07:25	11/21/13 20:38	1
Terphenyl-d14 (Surr)	69		36 - 134				11/19/13 07:25	11/21/13 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.0		20	7.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
PCB-1232	<8.7		20	8.7	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
PCB-1242	<6.5		20	6.5	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1

TestAmerica Chicago



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-2 (0-2)

Lab Sample ID: 500-66851-4

Date Collected: 11/12/13 13:50

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.8		20	7.8	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
PCB-1260	<9.8		20	9.8	ug/Kg	☼	11/18/13 07:30	11/19/13 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		50 - 116				11/18/13 07:30	11/19/13 17:23	1
DCB Decachlorobiphenyl	86		48 - 142				11/18/13 07:30	11/19/13 17:23	1

## Client Sample ID: 237-2 (2-4)

Lab Sample ID: 500-66851-5

Date Collected: 11/12/13 14:10

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.3

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1,1-Trichloroethane	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1,1,2,2-Tetrachloroethane	<15		64	15	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1,2-Trichloroethane	<18		64	18	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1-Dichloroethane	<12		64	12	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1-Dichloroethene	<20		64	20	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,1-Dichloropropene	<22		64	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2,3-Trichlorobenzene	<22		130	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2-Dichloroethane	<18 *		64	18	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,2-Dichloropropane	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,3-Dichlorobenzene	<16		130	16	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,3-Dichloropropane	<8.6		64	8.6	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
2,2-Dichloropropane	<20		64	20	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
2-Chlorotoluene	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
4-Chlorotoluene	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Benzene	<4.8		16	4.8	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Bromobenzene	<27		130	27	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Bromochloromethane	<24		130	24	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Bromoform	<28		130	28	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Bromomethane	<44		130	44	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Carbon tetrachloride	<16		64	16	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Chlorobenzene	<9.2		64	9.2	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Chloroethane	<28		130	28	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Chloroform	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Chloromethane	<30		130	30	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
cis-1,2-Dichloroethene	<7.9		64	7.9	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
cis-1,3-Dichloropropene	<11		64	11	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-2 (2-4)**

**Lab Sample ID: 500-66851-5**

**Date Collected: 11/12/13 14:10**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 86.3**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<22		130	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Dibromomethane	<31		130	31	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Ethylbenzene	<8.1		16	8.1	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Isopropyl ether	<9.4		130	9.4	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Methylene Chloride	<44		320	44	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Naphthalene	<32		130	32	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
n-Butylbenzene	<8.3		64	8.3	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
sec-Butylbenzene	<9.9		64	9.9	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Styrene	<6.3		64	6.3	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
tert-Butylbenzene	<8.7		64	8.7	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Tetrachloroethene	<11		64	11	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Toluene	<7.4		16	7.4	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
trans-1,2-Dichloroethene	<16		64	16	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
trans-1,3-Dichloropropene	<13		64	13	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Trichloroethene	<12		32	12	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50
Xylenes, Total	<4.4		32	4.4	ug/Kg	☼	11/12/13 14:10	11/22/13 02:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		75 - 125	11/12/13 14:10	11/22/13 02:14	50
4-Bromofluorobenzene (Surr)	108		75 - 120	11/12/13 14:10	11/22/13 02:14	50
Dibromofluoromethane	91		75 - 120	11/12/13 14:10	11/22/13 02:14	50
Toluene-d8 (Surr)	98		75 - 120	11/12/13 14:10	11/22/13 02:14	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		36	8.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
2-Methylnaphthalene	<58		180	58	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Anthracene	<6.1		36	6.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Benzo[a]anthracene</b>	<b>8.5</b>	<b>J</b>	36	4.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Benzo[a]pyrene</b>	<b>9.2</b>	<b>J</b>	36	7.0	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Benzo[b]fluoranthene</b>	<b>13</b>	<b>J</b>	36	7.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Chrysene</b>	<b>10</b>	<b>J</b>	36	9.9	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Fluoranthene</b>	<b>17</b>	<b>J</b>	36	6.7	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
<b>Phenanthrene</b>	<b>9.0</b>	<b>J</b>	36	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-2 (2-4)**

**Lab Sample ID: 500-66851-5**

Date Collected: 11/12/13 14:10

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	14	J	36	7.2	ug/Kg	☼	11/19/13 07:25	11/21/13 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	61		25 - 119				11/19/13 07:25	11/21/13 20:59	1
Nitrobenzene-d5 (Surr)	59		25 - 115				11/19/13 07:25	11/21/13 20:59	1
Terphenyl-d14 (Surr)	65		36 - 134				11/19/13 07:25	11/21/13 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		18	6.5	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1221	<8.1		18	8.1	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1242	<6.0		18	6.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1248	<7.3		18	7.3	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1254	<4.0		18	4.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
PCB-1260	<9.0		18	9.0	ug/Kg	☼	11/18/13 07:30	11/19/13 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	62		50 - 116				11/18/13 07:30	11/19/13 17:36	1
DCB Decachlorobiphenyl	74		48 - 142				11/18/13 07:30	11/19/13 17:36	1

**Client Sample ID: 237-3 (0-2)**

**Lab Sample ID: 500-66851-6**

Date Collected: 11/12/13 15:05

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 82.9

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1,1-Trichloroethane	<14		70	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1,2,2-Tetrachloroethane	<16		70	16	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1,2-Trichloroethane	<20		70	20	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1-Dichloroethane	<13		70	13	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1-Dichloroethene	<22		70	22	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,1-Dichloropropene	<24		70	24	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2,3-Trichlorobenzene	<25		140	25	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2,4-Trichlorobenzene	<27		140	27	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2-Dibromo-3-Chloropropane	<61		140	61	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2-Dichloroethane	<20 *		70	20	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,2-Dichloropropane	<14		70	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,3-Dichloropropane	<9.4		70	9.4	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
2,2-Dichloropropane	<22		70	22	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
2-Chlorotoluene	<15		70	15	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
4-Chlorotoluene	<14		70	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-3 (0-2)**

**Lab Sample ID: 500-66851-6**

**Date Collected: 11/12/13 15:05**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 82.9**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.2		18	5.2	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Bromobenzene	<30		140	30	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Bromochloromethane	<27		140	27	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Bromodichloromethane	<24		140	24	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Bromoform	<31		140	31	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Bromomethane	<48		140	48	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Carbon tetrachloride	<18		70	18	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Chlorobenzene	<10		70	10	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Chloroethane	<31		140	31	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Chloroform	<14		70	14	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Chloromethane	<32		140	32	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
cis-1,2-Dichloroethene	<8.6		70	8.6	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
cis-1,3-Dichloropropene	<13		70	13	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Dibromomethane	<34		140	34	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Ethylbenzene	<8.8		18	8.8	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Isopropyl ether	<10		140	10	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Isopropylbenzene	<18		140	18	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Methylene Chloride	<48		350	48	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Naphthalene	<35		140	35	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
n-Butylbenzene	<9.1		70	9.1	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
sec-Butylbenzene	<11		70	11	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Styrene	<6.9		70	6.9	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
tert-Butylbenzene	<9.6		70	9.6	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Tetrachloroethene	<12		70	12	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Toluene	<8.1		18	8.1	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
trans-1,2-Dichloroethene	<18		70	18	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
trans-1,3-Dichloropropene	<15		70	15	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Trichloroethene	<13		35	13	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Vinyl chloride	<7.3		18	7.3	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50
Xylenes, Total	<4.8		35	4.8	ug/Kg	☼	11/12/13 15:05	11/22/13 02:38	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128	X	75 - 125	11/12/13 15:05	11/22/13 02:38	50
4-Bromofluorobenzene (Surr)	109		75 - 120	11/12/13 15:05	11/22/13 02:38	50
Dibromofluoromethane	93		75 - 120	11/12/13 15:05	11/22/13 02:38	50
Toluene-d8 (Surr)	98		75 - 120	11/12/13 15:05	11/22/13 02:38	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.6		39	9.6	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
2-Methylnaphthalene	<63		200	63	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Acenaphthene	<7.1		39	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Acenaphthylene	<5.2		39	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-3 (0-2)**

**Lab Sample ID: 500-66851-6**

Date Collected: 11/12/13 15:05

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 82.9

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	18	J	39	6.6	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Benzo[a]anthracene	75		39	5.3	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Benzo[a]pyrene	73		39	7.6	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Benzo[b]fluoranthene	100		39	8.5	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Benzo[g,h,i]perylene	56		39	13	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Benzo[k]fluoranthene	39		39	12	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Chrysene	90		39	11	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Dibenz(a,h)anthracene	23	J	39	7.6	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Fluoranthene	160		39	7.3	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Fluorene	7.5	J	39	5.5	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Indeno[1,2,3-cd]pyrene	51		39	10	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Naphthalene	<6.1		39	6.1	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Phenanthrene	98		39	5.5	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
Pyrene	130		39	7.8	ug/Kg	☼	11/19/13 07:25	11/21/13 21:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	71		25 - 119				11/19/13 07:25	11/21/13 21:20	1
Nitrobenzene-d5 (Surr)	56		25 - 115				11/19/13 07:25	11/21/13 21:20	1
Terphenyl-d14 (Surr)	76		36 - 134				11/19/13 07:25	11/21/13 21:20	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	☼	11/18/13 07:30	11/19/13 17:51	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	11/18/13 07:30	11/19/13 17:51	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	11/18/13 07:30	11/19/13 17:51	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	11/18/13 07:30	11/19/13 17:51	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	11/18/13 07:30	11/19/13 17:51	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	11/18/13 07:30	11/19/13 17:51	1
<b>PCB-1260</b>	<b>41</b>		<b>19</b>	<b>9.5</b>	<b>ug/Kg</b>	<b>☼</b>	<b>11/18/13 07:30</b>	<b>11/19/13 17:51</b>	<b>1</b>
<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	71		50 - 116				11/18/13 07:30	11/19/13 17:51	1
DCB Decachlorobiphenyl	91		48 - 142				11/18/13 07:30	11/19/13 17:51	1

**Client Sample ID: 237-3 (2-4)**

**Lab Sample ID: 500-66851-7**

Date Collected: 11/12/13 15:20

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 83.6

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1,1-Trichloroethane	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1,1,2,2-Tetrachloroethane	<16		69	16	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1,2-Trichloroethane	<19		69	19	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1-Dichloroethane	<13		69	13	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1-Dichloroethene	<21		69	21	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,1-Dichloropropene	<24		69	24	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-3 (2-4)**

**Lab Sample ID: 500-66851-7**

**Date Collected: 11/12/13 15:20**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 83.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2-Dibromo-3-Chloropropane	<60		140	60	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2-Dichloroethane	<20	*	69	20	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,2-Dichloropropane	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,3-Dichloropropane	<9.3		69	9.3	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
2,2-Dichloropropane	<22		69	22	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
2-Chlorotoluene	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
4-Chlorotoluene	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Benzene	<5.1		17	5.1	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Bromobenzene	<29		140	29	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Bromochloromethane	<26		140	26	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Bromoform	<31		140	31	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Bromomethane	<47		140	47	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Carbon tetrachloride	<18		69	18	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Chlorobenzene	<9.9		69	9.9	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Chloroethane	<30		140	30	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Chloroform	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Chloromethane	<32		140	32	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
cis-1,2-Dichloroethene	<8.5		69	8.5	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
cis-1,3-Dichloropropene	<12		69	12	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Dibromochloromethane	<24		140	24	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Dibromomethane	<33		140	33	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Ethylbenzene	<8.7		17	8.7	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Isopropyl ether	<10		140	10	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Methylene Chloride	<47		350	47	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Naphthalene	<34		140	34	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
n-Butylbenzene	<8.9		69	8.9	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
sec-Butylbenzene	<11		69	11	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Styrene	<6.8		69	6.8	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
tert-Butylbenzene	<9.4		69	9.4	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Tetrachloroethene	<12		69	12	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Toluene	<8.0		17	8.0	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
trans-1,2-Dichloroethene	<17		69	17	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
trans-1,3-Dichloropropene	<14		69	14	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Trichloroethene	<13		35	13	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50

TestAmerica Chicago



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-3 (2-4)**

**Lab Sample ID: 500-66851-7**

**Date Collected: 11/12/13 15:20**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 83.6**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<4.7		35	4.7	ug/Kg	☼	11/12/13 15:20	11/22/13 03:03	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	127	X	75 - 125				11/12/13 15:20	11/22/13 03:03	50
4-Bromofluorobenzene (Surr)	109		75 - 120				11/12/13 15:20	11/22/13 03:03	50
Dibromofluoromethane	91		75 - 120				11/12/13 15:20	11/22/13 03:03	50
Toluene-d8 (Surr)	99		75 - 120				11/12/13 15:20	11/22/13 03:03	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.4		38	9.4	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
2-Methylnaphthalene	<61		190	61	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Anthracene	<6.4		38	6.4	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Benzo[a]anthracene</b>	<b>19</b>	<b>J</b>	38	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Benzo[a]pyrene</b>	<b>20</b>	<b>J</b>	38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Benzo[b]fluoranthene</b>	<b>26</b>	<b>J</b>	38	8.3	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Benzo[g,h,i]perylene</b>	<b>16</b>	<b>J</b>	38	12	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Chrysene</b>	<b>19</b>	<b>J</b>	38	10	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Fluoranthene</b>	<b>38</b>		38	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>14</b>	<b>J</b>	38	9.9	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Phenanthrene</b>	<b>20</b>	<b>J</b>	38	5.3	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Pyrene</b>	<b>28</b>	<b>J</b>	38	7.6	ug/Kg	☼	11/19/13 07:25	11/21/13 21:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	56		25 - 119				11/19/13 07:25	11/21/13 21:42	1
Nitrobenzene-d5 (Surr)	54		25 - 115				11/19/13 07:25	11/21/13 21:42	1
Terphenyl-d14 (Surr)	67		36 - 134				11/19/13 07:25	11/21/13 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
PCB-1232	<8.3		19	8.3	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
PCB-1248	<7.5		19	7.5	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	1
<b>PCB-1260</b>	<b>15</b>	<b>J</b>	19	9.3	ug/Kg	☼	11/18/13 07:30	11/19/13 18:05	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	75		50 - 116				11/18/13 07:30	11/19/13 18:05	1
DCB Decachlorobiphenyl	88		48 - 142				11/18/13 07:30	11/19/13 18:05	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-4 (0-2)**

**Lab Sample ID: 500-66851-8**

**Date Collected: 11/12/13 15:00**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 85.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1,1-Trichloroethane	<13		63	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1,2,2-Tetrachloroethane	<15		63	15	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1,2-Trichloroethane	<18		63	18	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1-Dichloroethane	<12		63	12	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1-Dichloroethene	<19		63	19	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,1-Dichloropropene	<22		63	22	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2,3-Trichlorobenzene	<22		130	22	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2,3-Trichloropropane	<36		130	36	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2,4-Trimethylbenzene	<13		130	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2-Dibromo-3-Chloropropane	<55		130	55	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2-Dichloroethane	<18 *		63	18	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,2-Dichloropropane	<12		63	12	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,3-Dichlorobenzene	<16		130	16	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,3-Dichloropropane	<8.5		63	8.5	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
2,2-Dichloropropane	<20		63	20	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
2-Chlorotoluene	<13		63	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
4-Chlorotoluene	<12		63	12	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Benzene	<4.7		16	4.7	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Bromobenzene	<27		130	27	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Bromochloromethane	<24		130	24	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Bromodichloromethane	<21		130	21	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Bromoform	<28		130	28	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Bromomethane	<43		130	43	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Carbon tetrachloride	<16		63	16	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Chlorobenzene	<9.1		63	9.1	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Chloroethane	<28		130	28	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Chloroform	<13		63	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Chloromethane	<29		130	29	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
cis-1,2-Dichloroethene	<7.8		63	7.8	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
cis-1,3-Dichloropropene	<11		63	11	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Dibromomethane	<30		130	30	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Dichlorodifluoromethane	<32		130	32	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Ethylbenzene	<8.0		16	8.0	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Isopropyl ether	<9.3		130	9.3	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Methyl tert-butyl ether	<27		130	27	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Methylene Chloride	<43		320	43	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Naphthalene	<31		130	31	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
n-Butylbenzene	<8.2		63	8.2	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50

TestAmerica Chicago



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-4 (0-2)**

**Lab Sample ID: 500-66851-8**

**Date Collected: 11/12/13 15:00**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 85.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<9.8		63	9.8	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Styrene	<6.3		63	6.3	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
tert-Butylbenzene	<8.6		63	8.6	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Tetrachloroethene	<11		63	11	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Toluene	<7.3		16	7.3	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
trans-1,2-Dichloroethene	<16		63	16	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
trans-1,3-Dichloropropene	<13		63	13	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Trichloroethene	<12		32	12	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Trichlorofluoromethane	<26		130	26	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Vinyl chloride	<6.6		16	6.6	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
Xylenes, Total	<4.3		32	4.3	ug/Kg	☼	11/12/13 15:00	11/22/13 03:28	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	129	X	75 - 125				11/12/13 15:00	11/22/13 03:28	50
4-Bromofluorobenzene (Surr)	112		75 - 120				11/12/13 15:00	11/22/13 03:28	50
Dibromofluoromethane	93		75 - 120				11/12/13 15:00	11/22/13 03:28	50
Toluene-d8 (Surr)	98		75 - 120				11/12/13 15:00	11/22/13 03:28	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	63		38	9.3	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
2-Methylnaphthalene	62	J	190	60	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Acenaphthene	160		38	6.8	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Acenaphthylene	9.4	J	38	5.0	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Anthracene	280		38	6.4	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Benzo[a]anthracene	540		38	5.1	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Benzo[a]pyrene	460		38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Benzo[b]fluoranthene	610		38	8.2	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Benzo[g,h,i]perylene	330		38	12	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Benzo[k]fluoranthene	200		38	11	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Chrysene	530		38	10	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Dibenz(a,h)anthracene	100		38	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Fluoranthene	1100		38	7.1	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Fluorene	150		38	5.4	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Indeno[1,2,3-cd]pyrene	290		38	9.9	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Naphthalene	71		38	5.9	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Phenanthrene	1100		38	5.3	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
Pyrene	870		38	7.6	ug/Kg	☼	11/19/13 07:25	11/21/13 22:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	67		25 - 119				11/19/13 07:25	11/21/13 22:58	1
Nitrobenzene-d5 (Surr)	57		25 - 115				11/19/13 07:25	11/21/13 22:58	1
Terphenyl-d14 (Surr)	75		36 - 134				11/19/13 07:25	11/21/13 22:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
PCB-1232	<8.5		19	8.5	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-4 (0-2)

Lab Sample ID: 500-66851-8

Date Collected: 11/12/13 15:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 85.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.6		19	7.6	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
<b>PCB-1260</b>	<b>28</b>		19	9.5	ug/Kg	☼	11/18/13 07:30	11/19/13 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		50 - 116				11/18/13 07:30	11/19/13 18:32	1
DCB Decachlorobiphenyl	77		48 - 142				11/18/13 07:30	11/19/13 18:32	1

## Client Sample ID: 237-4 (2-4)

Lab Sample ID: 500-66851-9

Date Collected: 11/12/13 15:15

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.4

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<24		140	24	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1,1-Trichloroethane	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1,2,2-Tetrachloroethane	<16		70	16	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1,2-Trichloroethane	<19		70	19	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1-Dichloroethane	<13		70	13	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1-Dichloroethene	<21		70	21	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,1-Dichloropropene	<24		70	24	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2,3-Trichlorobenzene	<24		140	24	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2,3-Trichloropropane	<40		140	40	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2,4-Trichlorobenzene	<26		140	26	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2,4-Trimethylbenzene	<15		140	15	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2-Dibromo-3-Chloropropane	<61		140	61	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2-Dibromoethane	<22		140	22	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2-Dichlorobenzene	<14		140	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2-Dichloroethane	<20 *		70	20	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,2-Dichloropropane	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,3,5-Trimethylbenzene	<14		140	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,3-Dichlorobenzene	<18		140	18	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,3-Dichloropropane	<9.3		70	9.3	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
1,4-Dichlorobenzene	<12		140	12	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
2,2-Dichloropropane	<22		70	22	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
2-Chlorotoluene	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
4-Chlorotoluene	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Benzene	<5.2		17	5.2	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Bromobenzene	<30		140	30	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Bromochloromethane	<26		140	26	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Bromodichloromethane	<23		140	23	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Bromoform	<31		140	31	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Bromomethane	<47		140	47	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Carbon tetrachloride	<18		70	18	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Chlorobenzene	<9.9		70	9.9	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Chloroethane	<30		140	30	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Chloroform	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Chloromethane	<32		140	32	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
cis-1,2-Dichloroethene	<8.5		70	8.5	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
cis-1,3-Dichloropropene	<12		70	12	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-4 (2-4)**

**Lab Sample ID: 500-66851-9**

**Date Collected: 11/12/13 15:15**

**Matrix: Solid**

**Date Received: 11/14/13 10:25**

**Percent Solids: 86.4**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<24		140	24	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Dibromomethane	<33		140	33	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Dichlorodifluoromethane	<36		140	36	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Ethylbenzene	<8.8		17	8.8	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Hexachlorobutadiene	<24		140	24	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Isopropyl ether	<10		140	10	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Isopropylbenzene	<17		140	17	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Methyl tert-butyl ether	<30		140	30	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Methylene Chloride	<47		350	47	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Naphthalene	<34		140	34	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
n-Butylbenzene	<9.0		70	9.0	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
N-Propylbenzene	<12		140	12	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
p-Isopropyltoluene	<13		140	13	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
sec-Butylbenzene	<11		70	11	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Styrene	<6.9		70	6.9	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
tert-Butylbenzene	<9.5		70	9.5	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Tetrachloroethene	<12		70	12	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Toluene	<8.0		17	8.0	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
trans-1,2-Dichloroethene	<17		70	17	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
trans-1,3-Dichloropropene	<14		70	14	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Trichloroethene	<13		35	13	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Trichlorofluoromethane	<29		140	29	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Vinyl chloride	<7.2		17	7.2	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50
Xylenes, Total	<4.8		35	4.8	ug/Kg	☼	11/12/13 15:15	11/22/13 03:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128	X	75 - 125	11/12/13 15:15	11/22/13 03:53	50
4-Bromofluorobenzene (Surr)	110		75 - 120	11/12/13 15:15	11/22/13 03:53	50
Dibromofluoromethane	92		75 - 120	11/12/13 15:15	11/22/13 03:53	50
Toluene-d8 (Surr)	99		75 - 120	11/12/13 15:15	11/22/13 03:53	50

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		37	9.0	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
2-Methylnaphthalene	<59		190	59	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Acenaphthylene	<4.9		37	4.9	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Anthracene</b>	<b>11</b>	<b>J</b>	37	6.2	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Benzo[a]anthracene</b>	<b>26</b>	<b>J</b>	37	5.0	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Benzo[a]pyrene</b>	<b>25</b>	<b>J</b>	37	7.2	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Benzo[b]fluoranthene</b>	<b>25</b>	<b>J</b>	37	8.0	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Benzo[g,h,i]perylene</b>	<b>19</b>	<b>J</b>	37	12	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Benzo[k]fluoranthene</b>	<b>19</b>	<b>J</b>	37	11	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Chrysene</b>	<b>26</b>	<b>J</b>	37	10	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Fluoranthene</b>	<b>51</b>		37	6.9	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Fluorene	<5.2		37	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>17</b>	<b>J</b>	37	9.6	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Naphthalene	<5.7		37	5.7	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
<b>Phenanthrene</b>	<b>43</b>		37	5.2	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: 237-4 (2-4)**

**Lab Sample ID: 500-66851-9**

Date Collected: 11/12/13 15:15

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.4

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	37		37	7.4	ug/Kg	☼	11/19/13 07:25	11/21/13 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		25 - 119				11/19/13 07:25	11/21/13 23:18	1
Nitrobenzene-d5 (Surr)	64		25 - 115				11/19/13 07:25	11/21/13 23:18	1
Terphenyl-d14 (Surr)	72		36 - 134				11/19/13 07:25	11/21/13 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		19	6.6	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1248	21		19	7.4	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	11/18/13 07:30	11/19/13 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		50 - 116				11/18/13 07:30	11/19/13 18:46	1
DCB Decachlorobiphenyl	71		48 - 142				11/18/13 07:30	11/19/13 18:46	1

**Client Sample ID: DUP**

**Lab Sample ID: 500-66851-10**

Date Collected: 11/12/13 00:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 88.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1248	21		19	7.4	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	11/18/13 07:30	11/19/13 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	57		50 - 116				11/18/13 07:30	11/19/13 19:00	1
DCB Decachlorobiphenyl	74		48 - 142				11/18/13 07:30	11/19/13 19:00	1

**Client Sample ID: EB**

**Lab Sample ID: 500-66851-11**

Date Collected: 11/12/13 15:40

Matrix: Water

Date Received: 11/14/13 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.071		0.42	0.071	ug/L		11/18/13 18:18	11/20/13 10:21	1
PCB-1221	<0.21		0.42	0.21	ug/L		11/18/13 18:18	11/20/13 10:21	1
PCB-1232	<0.21		0.42	0.21	ug/L		11/18/13 18:18	11/20/13 10:21	1
PCB-1242	<0.21		0.42	0.21	ug/L		11/18/13 18:18	11/20/13 10:21	1
PCB-1248	<0.21		0.42	0.21	ug/L		11/18/13 18:18	11/20/13 10:21	1
PCB-1254	<0.21		0.42	0.21	ug/L		11/18/13 18:18	11/20/13 10:21	1

TestAmerica Chicago

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

**Client Sample ID: EB**

**Lab Sample ID: 500-66851-11**

**Date Collected: 11/12/13 15:40**

**Matrix: Water**

**Date Received: 11/14/13 10:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.074	*	0.42	0.074	ug/L		11/18/13 18:18	11/20/13 10:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		50 - 120	11/18/13 18:18	11/20/13 10:21	1
DCB Decachlorobiphenyl	100		29 - 126	11/18/13 18:18	11/20/13 10:21	1

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

# Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside control limits

### GC/MS 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.

### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
X	Surrogate is outside 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.
α	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 WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## GC/MS VOA

### Prep Batch: 212427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	5035	
500-66851-3	237-1 (2-4)	Total/NA	Solid	5035	
500-66851-4	237-2 (0-2)	Total/NA	Solid	5035	
500-66851-5	237-2 (2-4)	Total/NA	Solid	5035	
500-66851-6	237-3 (0-2)	Total/NA	Solid	5035	
500-66851-7	237-3 (2-4)	Total/NA	Solid	5035	
500-66851-8	237-4 (0-2)	Total/NA	Solid	5035	
500-66851-9	237-4 (2-4)	Total/NA	Solid	5035	
LB3 500-212427/19-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-212427/20-A	Lab Control Sample	Total/NA	Solid	5035	

### Analysis Batch: 213035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-1	Trip Blank	Total/NA	Water	8260B	
LCS 500-213035/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-213035/6	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 213036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	8260B	212427
500-66851-3	237-1 (2-4)	Total/NA	Solid	8260B	212427
500-66851-4	237-2 (0-2)	Total/NA	Solid	8260B	212427
500-66851-5	237-2 (2-4)	Total/NA	Solid	8260B	212427
500-66851-6	237-3 (0-2)	Total/NA	Solid	8260B	212427
500-66851-7	237-3 (2-4)	Total/NA	Solid	8260B	212427
500-66851-8	237-4 (0-2)	Total/NA	Solid	8260B	212427
500-66851-9	237-4 (2-4)	Total/NA	Solid	8260B	212427
LB3 500-212427/19-A LB3	Method Blank	Total/NA	Solid	8260B	212427
LCS 500-212427/20-A	Lab Control Sample	Total/NA	Solid	8260B	212427
LCS 500-213036/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-213036/6	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 212510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	3541	
500-66851-3	237-1 (2-4)	Total/NA	Solid	3541	
500-66851-4	237-2 (0-2)	Total/NA	Solid	3541	
500-66851-5	237-2 (2-4)	Total/NA	Solid	3541	
500-66851-6	237-3 (0-2)	Total/NA	Solid	3541	
500-66851-7	237-3 (2-4)	Total/NA	Solid	3541	
500-66851-8	237-4 (0-2)	Total/NA	Solid	3541	
500-66851-9	237-4 (2-4)	Total/NA	Solid	3541	
LCS 500-212510/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-212510/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 212649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-212510/2-A	Lab Control Sample	Total/NA	Solid	8270D	212510

TestAmerica Chicago

# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 212649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-212510/1-A	Method Blank	Total/NA	Solid	8270D	212510

### Analysis Batch: 213076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	8270D	212510
500-66851-3	237-1 (2-4)	Total/NA	Solid	8270D	212510
500-66851-4	237-2 (0-2)	Total/NA	Solid	8270D	212510
500-66851-5	237-2 (2-4)	Total/NA	Solid	8270D	212510
500-66851-6	237-3 (0-2)	Total/NA	Solid	8270D	212510
500-66851-7	237-3 (2-4)	Total/NA	Solid	8270D	212510
500-66851-8	237-4 (0-2)	Total/NA	Solid	8270D	212510
500-66851-9	237-4 (2-4)	Total/NA	Solid	8270D	212510

## GC Semi VOA

### Prep Batch: 212296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	3541	
500-66851-2 MS	237-1 (0-2)	Total/NA	Solid	3541	
500-66851-2 MSD	237-1 (0-2)	Total/NA	Solid	3541	
500-66851-3	237-1 (2-4)	Total/NA	Solid	3541	
500-66851-4	237-2 (0-2)	Total/NA	Solid	3541	
500-66851-5	237-2 (2-4)	Total/NA	Solid	3541	
500-66851-6	237-3 (0-2)	Total/NA	Solid	3541	
500-66851-7	237-3 (2-4)	Total/NA	Solid	3541	
500-66851-8	237-4 (0-2)	Total/NA	Solid	3541	
500-66851-9	237-4 (2-4)	Total/NA	Solid	3541	
500-66851-10	DUP	Total/NA	Solid	3541	
LCS 500-212296/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-212296/1-A	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 212474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-11	EB	Total/NA	Water	3510C	
LCS 500-212474/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-212474/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-212474/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 212565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-11	EB	Total/NA	Water	8082	212474
LCS 500-212474/4-A	Lab Control Sample	Total/NA	Water	8082	212474
LCSD 500-212474/5-A	Lab Control Sample Dup	Total/NA	Water	8082	212474
MB 500-212474/1-A	Method Blank	Total/NA	Water	8082	212474

### Analysis Batch: 212583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	8082	212296
500-66851-2 MS	237-1 (0-2)	Total/NA	Solid	8082	212296
500-66851-2 MSD	237-1 (0-2)	Total/NA	Solid	8082	212296

TestAmerica Chicago



# QC Association Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## GC Semi VOA (Continued)

### Analysis Batch: 212583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-3	237-1 (2-4)	Total/NA	Solid	8082	212296
500-66851-4	237-2 (0-2)	Total/NA	Solid	8082	212296
500-66851-5	237-2 (2-4)	Total/NA	Solid	8082	212296
500-66851-6	237-3 (0-2)	Total/NA	Solid	8082	212296
500-66851-7	237-3 (2-4)	Total/NA	Solid	8082	212296
500-66851-8	237-4 (0-2)	Total/NA	Solid	8082	212296
500-66851-9	237-4 (2-4)	Total/NA	Solid	8082	212296
500-66851-10	DUP	Total/NA	Solid	8082	212296
LCS 500-212296/2-A	Lab Control Sample	Total/NA	Solid	8082	212296
MB 500-212296/1-A	Method Blank	Total/NA	Solid	8082	212296

## General Chemistry

### Analysis Batch: 212118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-2	237-1 (0-2)	Total/NA	Solid	Moisture	
500-66851-2 MS	237-1 (0-2)	Total/NA	Solid	Moisture	
500-66851-2 MSD	237-1 (0-2)	Total/NA	Solid	Moisture	
500-66851-3	237-1 (2-4)	Total/NA	Solid	Moisture	
500-66851-4	237-2 (0-2)	Total/NA	Solid	Moisture	
500-66851-5	237-2 (2-4)	Total/NA	Solid	Moisture	
500-66851-6	237-3 (0-2)	Total/NA	Solid	Moisture	
500-66851-7	237-3 (2-4)	Total/NA	Solid	Moisture	
500-66851-8	237-4 (0-2)	Total/NA	Solid	Moisture	
500-66851-9	237-4 (2-4)	Total/NA	Solid	Moisture	

### Analysis Batch: 212215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-66851-10	DUP	Total/NA	Solid	Moisture	

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-66851-2	237-1 (0-2)	126 X	109	93	98
500-66851-3	237-1 (2-4)	123	109	91	100
500-66851-4	237-2 (0-2)	128 X	108	92	100
500-66851-5	237-2 (2-4)	125	108	91	98
500-66851-6	237-3 (0-2)	128 X	109	93	98
500-66851-7	237-3 (2-4)	127 X	109	91	99
500-66851-8	237-4 (0-2)	129 X	112	93	98
500-66851-9	237-4 (2-4)	128 X	110	92	99
LB3 500-212427/19-A LB3	Method Blank	126 X	111	91	99
LCS 500-212427/20-A	Lab Control Sample	125	105	101	98
LCS 500-213036/4	Lab Control Sample	123	100	100	97
MB 500-213036/6	Method Blank	124	107	93	98

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-66851-1	Trip Blank	124	106	95	97
LCS 500-213035/4	Lab Control Sample	123	100	100	97
MB 500-213035/6	Method Blank	124	107	93	98

#### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (25-119)	NBZ (25-115)	TPH (36-134)
500-66851-2	237-1 (0-2)	61	59	69
500-66851-3	237-1 (2-4)	74	79	76
500-66851-4	237-2 (0-2)	62	53	69
500-66851-5	237-2 (2-4)	61	59	65
500-66851-6	237-3 (0-2)	71	56	76
500-66851-7	237-3 (2-4)	56	54	67
500-66851-8	237-4 (0-2)	67	57	75
500-66851-9	237-4 (2-4)	64	64	72
LCS 500-212510/2-A	Lab Control Sample	99	89	98

TestAmerica Chicago

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (25-119)	NBZ (25-115)	TPH (36-134)
MB 500-212510/1-A	Method Blank	97	87	91

#### Surrogate Legend

FBP = 2-Fluorobiphenyl  
NBZ = Nitrobenzene-d5 (Surr)  
TPH = Terphenyl-d14 (Surr)

## 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	TCX2 (50-116)	DCB2 (48-142)
500-66851-2	237-1 (0-2)	64	75
500-66851-2 MS	237-1 (0-2)	71	84
500-66851-2 MSD	237-1 (0-2)	74	86
500-66851-3	237-1 (2-4)	47 X	68
500-66851-4	237-2 (0-2)	67	86
500-66851-5	237-2 (2-4)	62	74
500-66851-6	237-3 (0-2)	71	91
500-66851-7	237-3 (2-4)	75	88
500-66851-8	237-4 (0-2)	63	77
500-66851-9	237-4 (2-4)	61	71
500-66851-10	DUP	57	74
LCS 500-212296/2-A	Lab Control Sample	68	70
MB 500-212296/1-A	Method Blank	65	67

#### Surrogate Legend

TCX = Tetrachloro-m-xylene  
DCB = DCB Decachlorobiphenyl

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (50-120)	DCB2 (29-126)
500-66851-11	EB	84	100
LCS 500-212474/4-A	Lab Control Sample	86	97
LCSD 500-212474/5-A	Lab Control Sample Dup	85	102
MB 500-212474/1-A	Method Blank	79	97

#### Surrogate Legend

TCX = Tetrachloro-m-xylene  
DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: LB3 500-212427/19-A LB3**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 212427**

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1-Dichloroethene	<15		50	15	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,1-Dichloropropene	<17		50	17	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2-Dibromoethane	<16		100	16	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2-Dichloroethane	<14		50	14	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
2,2-Dichloropropane	<16		50	16	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
2-Chlorotoluene	<10		50	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Benzene	<3.7		13	3.7	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Bromobenzene	<21		100	21	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Bromochloromethane	<19		100	19	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Bromodichloromethane	<17		100	17	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Bromoform	<22		100	22	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Bromomethane	<34		100	34	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Carbon tetrachloride	<13		50	13	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Chloroethane	<22		100	22	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Chloroform	<10		50	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Chloromethane	<23		100	23	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Dibromochloromethane	<17		100	17	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Dibromomethane	<24		100	24	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Hexachlorobutadiene	<17		100	17	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Isopropylbenzene	<13		100	13	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Methylene Chloride	<34		250	34	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Naphthalene	<25		100	25	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		11/18/13 14:40	11/22/13 07:10	50

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LB3 500-212427/19-A LB3**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 212427**

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Styrene	<4.9		50	4.9	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Toluene	<5.8		13	5.8	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Trichloroethene	<9.3		25	9.3	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Trichlorofluoromethane	<21		100	21	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		11/18/13 14:40	11/22/13 07:10	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		11/18/13 14:40	11/22/13 07:10	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	126	X	75 - 125	11/18/13 14:40	11/22/13 07:10	50
4-Bromofluorobenzene (Surr)	111		75 - 120	11/18/13 14:40	11/22/13 07:10	50
Dibromofluoromethane	91		75 - 120	11/18/13 14:40	11/22/13 07:10	50
Toluene-d8 (Surr)	99		75 - 120	11/18/13 14:40	11/22/13 07:10	50

**Lab Sample ID: LCS 500-212427/20-A**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 212427**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	2500	2570		ug/Kg		103	75 - 120
1,1,1-Trichloroethane	2500	2800		ug/Kg		112	70 - 123
1,1,2,2-Tetrachloroethane	2500	2400		ug/Kg		96	70 - 128
1,1,2-Trichloroethane	2500	2420		ug/Kg		97	69 - 120
1,1-Dichloroethane	2500	2770		ug/Kg		111	68 - 121
1,1-Dichloroethene	2500	2200		ug/Kg		88	58 - 122
1,1-Dichloropropene	2500	2650		ug/Kg		106	70 - 120
1,2,3-Trichlorobenzene	2500	2810		ug/Kg		113	56 - 137
1,2,3-Trichloropropane	2500	2390		ug/Kg		95	70 - 120
1,2,4-Trichlorobenzene	2500	2470		ug/Kg		99	65 - 121
1,2,4-Trimethylbenzene	2500	2590		ug/Kg		104	75 - 121
1,2-Dibromo-3-Chloropropane	2500	2370		ug/Kg		95	60 - 121
1,2-Dibromoethane	2500	2390		ug/Kg		95	70 - 120
1,2-Dichlorobenzene	2500	2580		ug/Kg		103	75 - 120
1,2-Dichloroethane	2500	3320	*	ug/Kg		133	69 - 120
1,2-Dichloropropane	2500	2590		ug/Kg		103	70 - 120
1,3,5-Trimethylbenzene	2500	2640		ug/Kg		106	75 - 123
1,3-Dichlorobenzene	2500	2480		ug/Kg		99	70 - 120
1,3-Dichloropropane	2500	2490		ug/Kg		100	70 - 120
1,4-Dichlorobenzene	2500	2400		ug/Kg		96	75 - 120
2,2-Dichloropropane	2500	2690		ug/Kg		108	67 - 125
2-Chlorotoluene	2500	2620		ug/Kg		105	70 - 120
4-Chlorotoluene	2500	2570		ug/Kg		103	70 - 120
Benzene	2500	2470		ug/Kg		99	70 - 120

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-212427/20-A**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 212427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2610		ug/Kg		105	70 - 120
Bromochloromethane	2500	2450		ug/Kg		98	67 - 122
Bromodichloromethane	2500	2550		ug/Kg		102	70 - 120
Bromoform	2500	2150		ug/Kg		86	70 - 125
Bromomethane	2500	2280		ug/Kg		91	50 - 150
Carbon tetrachloride	2500	2690		ug/Kg		108	70 - 125
Chlorobenzene	2500	2460		ug/Kg		98	70 - 120
Chloroethane	2500	2120		ug/Kg		85	50 - 150
Chloroform	2500	2790		ug/Kg		112	70 - 120
Chloromethane	2500	2210		ug/Kg		88	50 - 134
cis-1,2-Dichloroethene	2500	2430		ug/Kg		97	70 - 120
cis-1,3-Dichloropropene	2500	2370		ug/Kg		95	70 - 120
Dibromochloromethane	2500	2290		ug/Kg		92	70 - 120
Dibromomethane	2500	2520		ug/Kg		101	70 - 120
Dichlorodifluoromethane	2500	1290		ug/Kg		51	40 - 140
Ethylbenzene	2500	2430		ug/Kg		97	75 - 120
Hexachlorobutadiene	2500	3020		ug/Kg		121	65 - 135
Isopropylbenzene	2500	2590		ug/Kg		104	70 - 120
Methyl tert-butyl ether	2500	2470		ug/Kg		99	58 - 122
Methylene Chloride	2500	2430		ug/Kg		97	65 - 125
Naphthalene	2500	2610		ug/Kg		104	55 - 132
n-Butylbenzene	2500	2350		ug/Kg		94	75 - 120
N-Propylbenzene	2500	2520		ug/Kg		101	70 - 120
p-Isopropyltoluene	2500	2560		ug/Kg		103	70 - 120
sec-Butylbenzene	2500	2540		ug/Kg		102	70 - 120
Styrene	2500	2470		ug/Kg		99	75 - 120
tert-Butylbenzene	2500	2710		ug/Kg		108	70 - 120
Tetrachloroethene	2500	2480		ug/Kg		99	70 - 123
Toluene	2500	2490		ug/Kg		100	70 - 120
trans-1,2-Dichloroethene	2500	2330		ug/Kg		93	70 - 124
trans-1,3-Dichloropropene	2500	2360		ug/Kg		94	70 - 120
Trichloroethene	2500	2570		ug/Kg		103	70 - 120
Trichlorofluoromethane	2500	2430		ug/Kg		97	63 - 134
Vinyl chloride	2500	1820		ug/Kg		73	62 - 138
Xylenes, Total	5000	5120		ug/Kg		102	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	125		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	98		75 - 120

**Lab Sample ID: MB 500-213035/6**

**Matrix: Water**

**Analysis Batch: 213035**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/21/13 23:22	1

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-213035/6

Matrix: Water

Analysis Batch: 213035

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/21/13 23:22	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/21/13 23:22	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/21/13 23:22	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/21/13 23:22	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/21/13 23:22	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/21/13 23:22	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/21/13 23:22	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/21/13 23:22	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/21/13 23:22	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:22	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/21/13 23:22	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/21/13 23:22	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/21/13 23:22	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/21/13 23:22	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/21/13 23:22	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/21/13 23:22	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:22	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/21/13 23:22	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:22	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/21/13 23:22	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/21/13 23:22	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/21/13 23:22	1
Benzene	<0.074		0.50	0.074	ug/L			11/21/13 23:22	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/21/13 23:22	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/21/13 23:22	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/21/13 23:22	1
Bromoform	<0.28		1.0	0.28	ug/L			11/21/13 23:22	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/21/13 23:22	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/21/13 23:22	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:22	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/21/13 23:22	1
Chloroform	<0.20		1.0	0.20	ug/L			11/21/13 23:22	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/21/13 23:22	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/21/13 23:22	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/21/13 23:22	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/21/13 23:22	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/21/13 23:22	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/21/13 23:22	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/21/13 23:22	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/21/13 23:22	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/21/13 23:22	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:22	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/21/13 23:22	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/21/13 23:22	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/21/13 23:22	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/21/13 23:22	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/21/13 23:22	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/21/13 23:22	1

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-213035/6**

**Matrix: Water**

**Analysis Batch: 213035**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/21/13 23:22	1
Styrene	<0.10		1.0	0.10	ug/L			11/21/13 23:22	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/21/13 23:22	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/21/13 23:22	1
Toluene	<0.11		0.50	0.11	ug/L			11/21/13 23:22	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/21/13 23:22	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/21/13 23:22	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/21/13 23:22	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/21/13 23:22	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/21/13 23:22	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/21/13 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		75 - 125		11/21/13 23:22	1
4-Bromofluorobenzene (Surr)	107		75 - 120		11/21/13 23:22	1
Dibromofluoromethane	93		75 - 120		11/21/13 23:22	1
Toluene-d8 (Surr)	98		75 - 120		11/21/13 23:22	1

**Lab Sample ID: LCS 500-213035/4**

**Matrix: Water**

**Analysis Batch: 213035**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/L		104	75 - 120
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	70 - 123
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	70 - 128
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	69 - 120
1,1-Dichloroethane	50.0	51.4		ug/L		103	68 - 121
1,1-Dichloroethene	50.0	41.1		ug/L		82	58 - 122
1,1-Dichloropropene	50.0	50.6		ug/L		101	70 - 120
1,2,3-Trichlorobenzene	50.0	62.1		ug/L		124	56 - 137
1,2,3-Trichloropropane	50.0	50.6		ug/L		101	70 - 120
1,2,4-Trichlorobenzene	50.0	57.5		ug/L		115	65 - 121
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	60 - 121
1,2-Dibromoethane	50.0	49.5		ug/L		99	70 - 120
1,2-Dichlorobenzene	50.0	51.9		ug/L		104	75 - 120
1,2-Dichloroethane	50.0	63.2	*	ug/L		126	69 - 120
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 120
1,3,5-Trimethylbenzene	50.0	50.7		ug/L		101	75 - 123
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 120
1,3-Dichloropropane	50.0	51.4		ug/L		103	70 - 120
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	75 - 120
2,2-Dichloropropane	50.0	52.0		ug/L		104	67 - 125
2-Chlorotoluene	50.0	50.2		ug/L		100	70 - 120
4-Chlorotoluene	50.0	50.5		ug/L		101	70 - 120
Benzene	50.0	47.2		ug/L		94	70 - 120
Bromobenzene	50.0	50.6		ug/L		101	70 - 120

TestAmerica Chicago



# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-213035/4**

**Matrix: Water**

**Analysis Batch: 213035**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	48.9		ug/L		98	67 - 122
Bromodichloromethane	50.0	50.6		ug/L		101	70 - 120
Bromoform	50.0	46.9		ug/L		94	70 - 125
Bromomethane	50.0	53.9		ug/L		108	50 - 150
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 125
Chlorobenzene	50.0	50.1		ug/L		100	70 - 120
Chloroethane	50.0	47.0		ug/L		94	50 - 150
Chloroform	50.0	52.5		ug/L		105	70 - 120
Chloromethane	50.0	61.9		ug/L		124	50 - 134
cis-1,2-Dichloroethene	50.0	45.3		ug/L		91	70 - 120
cis-1,3-Dichloropropene	50.0	49.0		ug/L		98	70 - 120
Dibromochloromethane	50.0	47.5		ug/L		95	70 - 120
Dibromomethane	50.0	52.1		ug/L		104	70 - 120
Dichlorodifluoromethane	50.0	57.8		ug/L		116	40 - 140
Ethylbenzene	50.0	48.9		ug/L		98	75 - 120
Hexachlorobutadiene	50.0	61.0		ug/L		122	65 - 135
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 120
Methyl tert-butyl ether	50.0	49.4		ug/L		99	58 - 122
Methylene Chloride	50.0	45.9		ug/L		92	65 - 125
Naphthalene	50.0	58.4		ug/L		117	55 - 132
n-Butylbenzene	50.0	50.2		ug/L		100	75 - 120
N-Propylbenzene	50.0	48.9		ug/L		98	70 - 120
p-Isopropyltoluene	50.0	50.6		ug/L		101	70 - 120
sec-Butylbenzene	50.0	49.4		ug/L		99	70 - 120
Styrene	50.0	49.6		ug/L		99	75 - 120
tert-Butylbenzene	50.0	51.2		ug/L		102	70 - 120
Tetrachloroethene	50.0	50.0		ug/L		100	70 - 123
Toluene	50.0	48.9		ug/L		98	70 - 120
trans-1,2-Dichloroethene	50.0	43.6		ug/L		87	70 - 124
trans-1,3-Dichloropropene	50.0	50.1		ug/L		100	70 - 120
Trichloroethene	50.0	49.4		ug/L		99	70 - 120
Trichlorofluoromethane	50.0	54.3		ug/L		109	63 - 134
Vinyl chloride	50.0	49.6		ug/L		99	62 - 138
Xylenes, Total	100	103		ug/L		103	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	123		75 - 125
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	97		75 - 120

**Lab Sample ID: MB 500-213036/6**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			11/21/13 23:22	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			11/21/13 23:22	1

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-213036/6**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			11/21/13 23:22	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			11/21/13 23:22	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			11/21/13 23:22	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			11/21/13 23:22	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			11/21/13 23:22	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			11/21/13 23:22	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			11/21/13 23:22	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			11/21/13 23:22	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			11/21/13 23:22	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			11/21/13 23:22	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			11/21/13 23:22	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			11/21/13 23:22	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			11/21/13 23:22	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			11/21/13 23:22	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			11/21/13 23:22	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			11/21/13 23:22	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			11/21/13 23:22	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			11/21/13 23:22	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			11/21/13 23:22	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			11/21/13 23:22	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			11/21/13 23:22	1
Benzene	<0.074		0.25	0.074	ug/Kg			11/21/13 23:22	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			11/21/13 23:22	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			11/21/13 23:22	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			11/21/13 23:22	1
Bromoform	<0.44		2.0	0.44	ug/Kg			11/21/13 23:22	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			11/21/13 23:22	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			11/21/13 23:22	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			11/21/13 23:22	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			11/21/13 23:22	1
Chloroform	<0.21		1.0	0.21	ug/Kg			11/21/13 23:22	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			11/21/13 23:22	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			11/21/13 23:22	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			11/21/13 23:22	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			11/21/13 23:22	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			11/21/13 23:22	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			11/21/13 23:22	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			11/21/13 23:22	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			11/21/13 23:22	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			11/21/13 23:22	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			11/21/13 23:22	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			11/21/13 23:22	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			11/21/13 23:22	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			11/21/13 23:22	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			11/21/13 23:22	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			11/21/13 23:22	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			11/21/13 23:22	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			11/21/13 23:22	1

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-213036/6

Matrix: Solid

Analysis Batch: 213036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Styrene	<0.099		1.0	0.099	ug/Kg			11/21/13 23:22	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			11/21/13 23:22	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			11/21/13 23:22	1
Toluene	<0.12		0.25	0.12	ug/Kg			11/21/13 23:22	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			11/21/13 23:22	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			11/21/13 23:22	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			11/21/13 23:22	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			11/21/13 23:22	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			11/21/13 23:22	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			11/21/13 23:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	124		75 - 125		11/21/13 23:22	1
4-Bromofluorobenzene (Surr)	107		75 - 120		11/21/13 23:22	1
Dibromofluoromethane	93		75 - 120		11/21/13 23:22	1
Toluene-d8 (Surr)	98		75 - 120		11/21/13 23:22	1

Lab Sample ID: LCS 500-213036/4

Matrix: Solid

Analysis Batch: 213036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 123
1,1,1,2,2-Tetrachloroethane	50.0	50.5		ug/Kg		101	70 - 128
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	69 - 120
1,1-Dichloroethane	50.0	51.4		ug/Kg		103	68 - 121
1,1-Dichloroethene	50.0	41.1		ug/Kg		82	58 - 122
1,1-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 120
1,2,3-Trichlorobenzene	50.0	62.1		ug/Kg		124	56 - 137
1,2,3-Trichloropropene	50.0	50.6		ug/Kg		101	70 - 120
1,2,4-Trichlorobenzene	50.0	57.5		ug/Kg		115	65 - 121
1,2,4-Trimethylbenzene	50.0	50.8		ug/Kg		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/Kg		105	60 - 121
1,2-Dibromoethane	50.0	49.5		ug/Kg		99	70 - 120
1,2-Dichlorobenzene	50.0	51.9		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.0	63.2	*	ug/Kg		126	69 - 120
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	70 - 120
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	75 - 123
1,3-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 120
1,3-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 120
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	75 - 120
2,2-Dichloropropane	50.0	52.0		ug/Kg		104	67 - 125
2-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 120
4-Chlorotoluene	50.0	50.5		ug/Kg		101	70 - 120
Benzene	50.0	47.2		ug/Kg		94	70 - 120
Bromobenzene	50.0	50.6		ug/Kg		101	70 - 120
Bromochloromethane	50.0	48.9		ug/Kg		98	67 - 122

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-213036/4**

**Matrix: Solid**

**Analysis Batch: 213036**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	50.6		ug/Kg		101	70 - 120
Bromoform	50.0	46.9		ug/Kg		94	70 - 125
Bromomethane	50.0	53.9		ug/Kg		108	50 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 125
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 120
Chloroethane	50.0	47.0		ug/Kg		94	50 - 150
Chloroform	50.0	52.5		ug/Kg		105	70 - 120
Chloromethane	50.0	61.9		ug/Kg		124	50 - 134
cis-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	70 - 120
cis-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	70 - 120
Dibromochloromethane	50.0	47.5		ug/Kg		95	70 - 120
Dibromomethane	50.0	52.1		ug/Kg		104	70 - 120
Dichlorodifluoromethane	50.0	57.8		ug/Kg		116	40 - 140
Ethylbenzene	50.0	48.9		ug/Kg		98	75 - 120
Hexachlorobutadiene	50.0	61.0		ug/Kg		122	65 - 135
Isopropylbenzene	50.0	48.5		ug/Kg		97	70 - 120
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	58 - 122
Methylene Chloride	50.0	45.9		ug/Kg		92	65 - 125
Naphthalene	50.0	58.4		ug/Kg		117	55 - 132
n-Butylbenzene	50.0	50.2		ug/Kg		100	75 - 120
N-Propylbenzene	50.0	48.9		ug/Kg		98	70 - 120
p-Isopropyltoluene	50.0	50.6		ug/Kg		101	70 - 120
sec-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 120
Styrene	50.0	49.6		ug/Kg		99	75 - 120
tert-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 120
Tetrachloroethene	50.0	50.0		ug/Kg		100	70 - 123
Toluene	50.0	48.9		ug/Kg		98	70 - 120
trans-1,2-Dichloroethene	50.0	43.6		ug/Kg		87	70 - 124
trans-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	70 - 120
Trichloroethene	50.0	49.4		ug/Kg		99	70 - 120
Trichlorofluoromethane	50.0	54.3		ug/Kg		109	63 - 134
Vinyl chloride	50.0	49.6		ug/Kg		99	62 - 138
Xylenes, Total	100	103		ug/Kg		103	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	123		75 - 125
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	97		75 - 120

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 500-212510/1-A**

**Matrix: Solid**

**Analysis Batch: 212649**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 212510**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	<8.1		33	8.1	ug/Kg		11/19/13 07:25	11/19/13 17:09	1

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-212510/1-A**

**Matrix: Solid**

**Analysis Batch: 212649**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 212510**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	<53		170	53	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Acenaphthene	<6.0		33	6.0	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Anthracene	<5.6		33	5.6	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Chrysene	<9.1		33	9.1	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Fluoranthene	<6.2		33	6.2	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Fluorene	<4.7		33	4.7	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Naphthalene	<5.1		33	5.1	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Phenanthrene	<4.6		33	4.6	ug/Kg		11/19/13 07:25	11/19/13 17:09	1
Pyrene	<6.6		33	6.6	ug/Kg		11/19/13 07:25	11/19/13 17:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl	97		25 - 119	11/19/13 07:25	11/19/13 17:09	1
Nitrobenzene-d5 (Surr)	87		25 - 115	11/19/13 07:25	11/19/13 17:09	1
Terphenyl-d14 (Surr)	91		36 - 134	11/19/13 07:25	11/19/13 17:09	1

**Lab Sample ID: LCS 500-212510/2-A**

**Matrix: Solid**

**Analysis Batch: 212649**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 212510**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
2-Methylnaphthalene	1330	1210		ug/Kg		91	51 - 110
Acenaphthene	1330	1110		ug/Kg		83	53 - 110
Acenaphthylene	1330	1350		ug/Kg		101	51 - 110
Anthracene	1330	1330		ug/Kg		100	52 - 110
Benzo[a]anthracene	1330	1160		ug/Kg		87	57 - 110
Benzo[a]pyrene	1330	1160		ug/Kg		87	56 - 110
Benzo[b]fluoranthene	1330	1280		ug/Kg		96	50 - 110
Benzo[g,h,i]perylene	1330	1290		ug/Kg		96	54 - 117
Benzo[k]fluoranthene	1330	1090		ug/Kg		82	43 - 121
Chrysene	1330	1070		ug/Kg		80	54 - 110
Dibenz(a,h)anthracene	1330	1190		ug/Kg		89	52 - 118
Fluoranthene	1330	1370		ug/Kg		103	55 - 113
Fluorene	1330	1360		ug/Kg		102	52 - 112
Indeno[1,2,3-cd]pyrene	1330	1210		ug/Kg		91	53 - 116
Naphthalene	1330	1110		ug/Kg		83	48 - 110
Phenanthrene	1330	1470		ug/Kg		111	51 - 116
Pyrene	1330	1280		ug/Kg		96	50 - 112

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-212510/2-A  
Matrix: Solid  
Analysis Batch: 212649

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 212510

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	99		25 - 119
Nitrobenzene-d5 (Surr)	89		25 - 115
Terphenyl-d14 (Surr)	98		36 - 134

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

Lab Sample ID: MB 500-212296/1-A  
Matrix: Solid  
Analysis Batch: 212583

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 212296

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<5.9		17	5.9	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1221	<7.3		17	7.3	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1232	<7.3		17	7.3	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1242	<5.5		17	5.5	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1248	<6.6		17	6.6	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1254	<3.6		17	3.6	ug/Kg		11/18/13 07:30	11/19/13 15:59	1
PCB-1260	<8.2		17	8.2	ug/Kg		11/18/13 07:30	11/19/13 15:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	65		50 - 116	11/18/13 07:30	11/19/13 15:59	1
DCB Decachlorobiphenyl	67		48 - 142	11/18/13 07:30	11/19/13 15:59	1

Lab Sample ID: LCS 500-212296/2-A  
Matrix: Solid  
Analysis Batch: 212583

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 212296

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	167	158		ug/Kg		95	59 - 110
PCB-1260	167	180		ug/Kg		108	69 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	68		50 - 116
DCB Decachlorobiphenyl	70		48 - 142

Lab Sample ID: 500-66851-2 MS  
Matrix: Solid  
Analysis Batch: 212583

Client Sample ID: 237-1 (0-2)  
Prep Type: Total/NA  
Prep Batch: 212296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
PCB-1016	<6.9		199	197		ug/Kg	☼	99	59 - 110
PCB-1260	<9.5		199	236		ug/Kg	☼	119	69 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	71		50 - 116
DCB Decachlorobiphenyl	84		48 - 142

TestAmerica Chicago

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

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

**Lab Sample ID: 500-66851-2 MSD**

**Matrix: Solid**

**Analysis Batch: 212583**

**Client Sample ID: 237-1 (0-2)**

**Prep Type: Total/NA**

**Prep Batch: 212296**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
PCB-1016	<6.9		200	204		ug/Kg	☼	102	59 - 110		4	30
PCB-1260	<9.5		200	239		ug/Kg	☼	120	69 - 120		1	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	74		50 - 116
DCB Decachlorobiphenyl	86		48 - 142

**Lab Sample ID: MB 500-212474/1-A**

**Matrix: Water**

**Analysis Batch: 212565**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 212474**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
PCB-1016	<0.067		0.40	0.067	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1221	<0.20		0.40	0.20	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1232	<0.20		0.40	0.20	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1242	<0.20		0.40	0.20	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1248	<0.20		0.40	0.20	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1254	<0.20		0.40	0.20	ug/L		11/18/13 18:18	11/20/13 09:39		1
PCB-1260	<0.070		0.40	0.070	ug/L		11/18/13 18:18	11/20/13 09:39		1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil	Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	79		50 - 120	11/18/13 18:18	11/20/13 09:39		1
DCB Decachlorobiphenyl	97		29 - 126	11/18/13 18:18	11/20/13 09:39		1

**Lab Sample ID: LCS 500-212474/4-A**

**Matrix: Water**

**Analysis Batch: 212565**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 212474**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
PCB-1016	4.00	4.26		ug/L		107	70 - 130	
PCB-1260	4.00	5.25	*	ug/L		131	70 - 130	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	86		50 - 120
DCB Decachlorobiphenyl	97		29 - 126

**Lab Sample ID: LCSD 500-212474/5-A**

**Matrix: Water**

**Analysis Batch: 212565**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 212474**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
		Result	Qualifier							
PCB-1016	4.00	4.49		ug/L		112	70 - 130	5	20	
PCB-1260	4.00	5.25	*	ug/L		131	70 - 130	0	20	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	85		50 - 120
DCB Decachlorobiphenyl	102		29 - 126

TestAmerica Chicago



# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: Trip Blank

Date Collected: 11/12/13 00:00

Date Received: 11/14/13 10:25

## Lab Sample ID: 500-66851-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	213035	11/21/13 23:46	BDA	TAL CHI

## Client Sample ID: 237-1 (0-2)

Date Collected: 11/12/13 12:00

Date Received: 11/14/13 10:25

## Lab Sample ID: 500-66851-2

Matrix: Solid

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 12:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 01:00	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 19:55	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 16:26	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-1 (2-4)

Date Collected: 11/12/13 12:30

Date Received: 11/14/13 10:25

## Lab Sample ID: 500-66851-3

Matrix: Solid

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 01:25	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 20:16	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 17:09	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-2 (0-2)

Date Collected: 11/12/13 13:50

Date Received: 11/14/13 10:25

## Lab Sample ID: 500-66851-4

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 01:49	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 20:38	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 17:23	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-2 (2-4)

## Lab Sample ID: 500-66851-5

Date Collected: 11/12/13 14:10

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 02:14	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 20:59	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 17:36	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-3 (0-2)

## Lab Sample ID: 500-66851-6

Date Collected: 11/12/13 15:05

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 15:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 02:38	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 21:20	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 17:51	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-3 (2-4)

## Lab Sample ID: 500-66851-7

Date Collected: 11/12/13 15:20

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 15:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 03:03	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 21:42	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 18:05	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-4 (0-2)

## Lab Sample ID: 500-66851-8

Date Collected: 11/12/13 15:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 15:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 03:28	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 22:58	WDS	TAL CHI

TestAmerica Chicago

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001368.0010.00001

TestAmerica Job ID: 500-66851-1

## Client Sample ID: 237-4 (0-2)

Lab Sample ID: 500-66851-8

Date Collected: 11/12/13 15:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 18:32	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: 237-4 (2-4)

Lab Sample ID: 500-66851-9

Date Collected: 11/12/13 15:15

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			212427	11/12/13 15:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	213036	11/22/13 03:53	BDA	TAL CHI
Total/NA	Prep	3541			212510	11/19/13 07:25	STW	TAL CHI
Total/NA	Analysis	8270D		1	213076	11/21/13 23:18	WDS	TAL CHI
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 18:46	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212118	11/15/13 14:51	CMV	TAL CHI

## Client Sample ID: DUP

Lab Sample ID: 500-66851-10

Date Collected: 11/12/13 00:00

Matrix: Solid

Date Received: 11/14/13 10:25

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			212296	11/18/13 07:30	STW	TAL CHI
Total/NA	Analysis	8082		1	212583	11/19/13 19:00	GMO	TAL CHI
Total/NA	Analysis	Moisture		1	212215	11/16/13 14:31	CMV	TAL CHI

## Client Sample ID: EB

Lab Sample ID: 500-66851-11

Date Collected: 11/12/13 15:40

Matrix: Water

Date Received: 11/14/13 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			212474	11/18/13 18:18	JP1	TAL CHI
Total/NA	Analysis	8082		1	212565	11/20/13 10:21	GMO	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.

TestAmerica Job ID: 500-66851-1

Project/Site: MadisonKipp WI001368.0010.00001

## 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	04-30-14
California	NELAP	9	01132CA	04-30-14
Georgia	State Program	4	N/A	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	10-31-14 *
Kentucky	State Program	4	90023	12-31-13
Kentucky (UST)	State Program	4	66	04-30-14
Louisiana	NELAP	6	30720	06-30-14
Massachusetts	State Program	1	M-IL035	06-30-14
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	08-31-14
South Carolina	State Program	4	77001	04-30-14
Texas	NELAP	6	T104704252-09-TX	02-28-14
USDA	Federal		P330-12-00038	02-06-15
Wisconsin	State Program	5	999580010	08-31-14
Wyoming	State Program	8	8TMS-Q	04-30-14

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

TestAmerica Chicago

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

# CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-66851

<b>Send Results to:</b>	Contact & Company Name: <u>Chris Kubacki ARCADIS</u>		Telephone: <u>414.276.7742</u>		Preservative: <u>F E E E E B E</u>		<b>Keys</b> <b>Preservation Key:</b> A. H <sub>2</sub> SO <sub>4</sub> B. HCL C. HNO <sub>3</sub> D. NaOH E. None F. Other: <u>Meat</u> G. Other: _____ H. Other: _____  <b>Matrix Key:</b> SO - Soil      SE - Sediment      NL - NAPL/Oil W - Water      SL - Sludge      SW - Sample Wipe T - Tissue      A - Air      Other: _____							
	Address: <u>126 N Jefferson St #400</u>		Fax: <u>414.276.7603</u>		Filtered (✓):									
	City State Zip: <u>Milwaukee WI 53202</u>		E-mail Address: <u>Chris.Kubacki@arcadis-us.com</u>		# of Containers: <u>1 1 1 1 1 1 1</u>									
Project Name/Location (City, State): <u>Melissa Kipp Corp (Madison, WI)</u>		Project #: <u>W1001368-0010-0221</u>		Container Information: <u>1 6 7 7 9 1 3</u>		<b>PARAMETER ANALYSIS &amp; METHOD</b>								
Sampler's Printed Name: <u>Lisa Rutkowski/Nicole Dedei</u>		Sampler's Signature: <u>[Signature]</u>		<u>VOCS</u> <u>Dry Weight</u> <u>PAH</u> <u>PCB</u> <u>PCB</u> <u>VOCS</u> <u>Temperature</u>										
<b>Sample ID</b>		<b>Collection</b>				<b>Type (✓)</b>		<b>Matrix</b>		<b>REMARKS</b>				
		Date	Time	Comp	Grab									
1	Trip Blank	-	-	-	-	W	-	-	-	-	-	-	-	
2	237-1 (0-2)	11/2/13	1200		✓	SO	1	1	1	3	1	1	1	PCB MS/MSD
3	237-1 (2-4)	11/2/13	1230		✓	SO	1	1	1	1	1	1	1	
4	237-2 (0-2)	11/2/13	1350		✓	SO	1	1	1	1	1	1	1	
5	237-2 (2-4)	11/2/13	1410		✓	SO	1	1	1	1	1	1	1	
6	237-3 (0-2)	11/2/13	1505		✓	SO	1	1	1	1	1	1	1	
7	237-3 (2-4)	11/2/13	1520		✓	SO	1	1	1	1	1	1	1	
8	237-4 (0-2)	11/2/13	1500		✓	SO	1	1	1	1	1	1	1	
9	237-4 (2-4)	11/2/13	1515		✓	SO	1	1	1	1	1	1	1	
10	DUP	11/2/13	-		✓	SO	-	-	-	-	-	-	-	
11	EB	11/2/13	1540		✓	SO/W	-	-	-	-	-	-	-	
	Temperature Blank	-	-	-	-	W	-	-	-	-	-	-	-	



500-66851 COC

Special Instructions/Comments: \_\_\_\_\_  Special QA/QC Instructions(✓): \_\_\_\_\_

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <u>Test America</u>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Lisa Rutkowski</u>	Signature: <u>[Signature]</u>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <u>Sherrin Scott</u>	Signature: <u>[Signature]</u>
Specify Turnaround Requirements: <u>Standard</u>	Sample Receipt:	Firm: <u>ARCADIS</u>	Date/Time: <u>11/13/13 / 1700</u>	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: <u>TA-CPT</u>	Date/Time: <u>11/14/13 1025</u>
Shipping Tracking #:	Condition/Cooler Temp: <u>4.5</u>								

## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-66851-1

**Login Number: 66851**

**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	4.5
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

