

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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TestAmerica Job ID: 500-47663-1  
Client Project/Site: MadisonKipp WI001283.0008.00001

For:  
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Attn: Ms. Toni Schoen



Authorized for release by:  
7/9/2012 5:54:07 PM

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

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

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# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Job ID: 500-47663-1

### Laboratory: TestAmerica Chicago

#### Narrative

#### Job Narrative 500-47663-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/26/2012 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

#### GC/MS VOA

Method(s) 8260B: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with the prep batch 154235 had 2 analytes outside control limits; therefore, re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270C: The following samples were diluted due to the abundance of non-target analytes: B2 (0-2) (500-47663-9), B23 (0-1) (500-47663-3), B42 (0-1) (500-47663-4), B83 (0-1) (500-47663-7), B84 (2-4) (500-47663-10). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8082: The following sample(s) required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: B2 (0-2) (500-47663-9), B23 (0-1) (500-47663-3), B34 (0-1) (500-47663-1), B34 (2-4) (500-47663-2), B42 (0-1) (500-47663-4), B42 (2-4) (500-47663-5), B50 (0-1) (500-47663-6), B50 (9.5-11.5) (500-47663-11), B83 (0-1) (500-47663-7), B83 (2-4) (500-47663-8), B84 (2-4) (500-47663-10). The reagent lot number used was: K45N05.

Method(s) 8082: The following samples were diluted due to the abundance of target analytes: B2 (0-2) (500-47663-9), B23 (0-1) (500-47663-3), B42 (0-1) (500-47663-4), B50 (0-1) (500-47663-6). Elevated reporting limits (RLs) are provided.

Method(s) 8082: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: B2 (0-2) (500-47663-9).

Method(s) 8082: The method blank for batch 155091 contained Aroclor 1254 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and re-analysis of samples was not performed. B2 (0-2) (500-47663-9), B23 (0-1) (500-47663-3), B34 (0-1) (500-47663-1), B34 (2-4) (500-47663-2), B42 (0-1) (500-47663-4), B42 (2-4) (500-47663-5), B50 (0-1) (500-47663-6), B50 (9.5-11.5) (500-47663-11), B83 (0-1) (500-47663-7), B83 (2-4) (500-47663-8), B84 (2-4) (500-47663-10)

Method(s) 8082: TCX surrogate recovery for the following sample was high and outside control limits: B84 (2-4) (500-47663-10). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B34 (0-1)

## Lab Sample ID: 500-47663-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	19	J	39	9.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	97		39	8.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	96		39	7.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	150		39	7.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	94		39	13	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	54		39	9.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	120		39	8.8	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	27	J	39	11	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	140		39	16	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	71		39	13	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	90		39	16	ug/Kg	1	☼	8270C	Total/NA
Pyrene	140		39	14	ug/Kg	1	☼	8270C	Total/NA
PCB-1248	230		20	7.9	ug/Kg	1	☼	8082	Total/NA
PCB-1254	250	B	20	4.3	ug/Kg	1	☼	8082	Total/NA
Arsenic	8.2		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.36		0.24	0.059	mg/Kg	1	☼	6010B	Total/NA
Chromium	46		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	26		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.39	J	1.2	0.34	mg/Kg	1	☼	6010B	Total/NA
Silver	0.20	J	0.60	0.072	mg/Kg	1	☼	6010B	Total/NA
Mercury	130		19	5.7	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.46	J B ^	0.59	0.19	mg/Kg	1	☼	9014	Total/NA

## Client Sample ID: B34 (2-4)

## Lab Sample ID: 500-47663-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19	J	39	8.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	29	J	39	7.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	40		39	7.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	13	J	39	13	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	17	J	39	9.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	25	J	39	8.8	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	20	J	39	16	ug/Kg	1	☼	8270C	Total/NA
Pyrene	22	J	39	14	ug/Kg	1	☼	8270C	Total/NA
PCB-1248	65		21	8.1	ug/Kg	1	☼	8082	Total/NA
PCB-1254	54	B	21	4.4	ug/Kg	1	☼	8082	Total/NA
Arsenic	5.7		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	84		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	8.9		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Mercury	28		19	5.7	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.56	B ^	0.55	0.18	mg/Kg	1	☼	9014	Total/NA

## Client Sample ID: B23 (0-1)

## Lab Sample ID: 500-47663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	100	J	230	49	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	180	J	230	43	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	310		230	46	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	150	J	230	80	ug/Kg	5	☼	8270C	Total/NA
Chrysene	170	J	230	53	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	180	J	230	97	ug/Kg	5	☼	8270C	Total/NA

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B23 (0-1) (Continued)

Lab Sample ID: 500-47663-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	110	J	230	80	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	130	J	230	99	ug/Kg	5	☼	8270C	Total/NA
Pyrene	190	J	230	85	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	820		120	47	ug/Kg	5	☼	8082	Total/NA
Arsenic	3.8		1.4	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	90		1.4	0.17	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.85		0.29	0.071	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		1.4	0.24	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.72	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	52		22	6.7	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.47	J B ^	0.66	0.22	mg/Kg	1	☼	9014	Total/NA

## Client Sample ID: B42 (0-1)

Lab Sample ID: 500-47663-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130		110	11	ug/Kg	50	☼	8260B	Total/NA
Benzene	33		14	4.0	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	70		14	6.8	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	290		110	27	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	170		54	9.0	ug/Kg	50	☼	8260B	Total/NA
Toluene	190		14	6.2	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	440		27	3.7	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	410		180	89	ug/Kg	5	☼	8270C	Total/NA
2-Methylnaphthalene	470	J	900	230	ug/Kg	5	☼	8270C	Total/NA
Acenaphthylene	47	J	180	41	ug/Kg	5	☼	8270C	Total/NA
Anthracene	110	J	180	42	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]anthracene	190		180	38	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	200		180	33	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	330		180	35	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	230		180	60	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	150	J	180	43	ug/Kg	5	☼	8270C	Total/NA
Chrysene	260		180	40	ug/Kg	5	☼	8270C	Total/NA
Dibenz[a,h]anthracene	65	J	180	50	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	370		180	73	ug/Kg	5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	160	J	180	60	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	310		180	35	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	780		180	75	ug/Kg	5	☼	8270C	Total/NA
Pyrene	350		180	65	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	320		36	14	ug/Kg	2	☼	8082	Total/NA
PCB-1254	230	B	36	7.7	ug/Kg	2	☼	8082	Total/NA
Arsenic	17		1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	52		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.2		0.22	0.054	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.67	J	1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Silver	0.14	J	0.54	0.065	mg/Kg	1	☼	6010B	Total/NA
Mercury	250		18	5.4	ug/Kg	1	☼	7471A	Total/NA

## Client Sample ID: B42 (2-4)

Lab Sample ID: 500-47663-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	11	J	40	7.4	ug/Kg	1	☼	8270C	Total/NA

# Detection Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B42 (2-4) (Continued)

Lab Sample ID: 500-47663-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.55	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.50	J	1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Mercury	35		19	5.7	ug/Kg	1	☼	7471A	Total/NA

## Client Sample ID: B50 (0-1)

Lab Sample ID: 500-47663-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		51	8.6	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	24	J	26	9.6	ug/Kg	50	☼	8260B	Total/NA
Anthracene	17	J	34	8.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	91		34	7.2	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	150		34	6.2	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	130		34	6.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	180		34	12	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	84		34	8.1	ug/Kg	1	☼	8270C	Total/NA
Chrysene	140		34	7.7	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	47		34	9.5	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	140		34	14	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	89		34	12	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	7.9	J	34	6.6	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	74		34	14	ug/Kg	1	☼	8270C	Total/NA
Pyrene	170		34	12	ug/Kg	1	☼	8270C	Total/NA
PCB-1248	500		87	34	ug/Kg	5	☼	8082	Total/NA
PCB-1254	470	B	87	19	ug/Kg	5	☼	8082	Total/NA
Arsenic	8.9		1.0	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	22		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.3		0.21	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.7		1.0	0.17	mg/Kg	1	☼	6010B	Total/NA
Lead	250		0.52	0.18	mg/Kg	1	☼	6010B	Total/NA
Silver	0.25	J	0.52	0.063	mg/Kg	1	☼	6010B	Total/NA
Mercury	39		16	5.0	ug/Kg	1	☼	7471A	Total/NA

## Client Sample ID: B83 (0-1)

Lab Sample ID: 500-47663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	71	J	110	27	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1200		55	9.1	ug/Kg	50	☼	8260B	Total/NA
Toluene	26		14	6.3	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	35		27	10	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	69		27	3.7	ug/Kg	50	☼	8260B	Total/NA
Acenaphthylene	77	J	180	41	ug/Kg	5	☼	8270C	Total/NA
Anthracene	82	J	180	41	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]anthracene	430		180	37	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	520		180	32	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	670		180	34	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	530		180	59	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	320		180	42	ug/Kg	5	☼	8270C	Total/NA
Chrysene	530		180	40	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	130	J	180	49	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	650		180	72	ug/Kg	5	☼	8270C	Total/NA

# Detection Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B83 (0-1) (Continued)

Lab Sample ID: 500-47663-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	360		180	59	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	47	J	180	34	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	340		180	74	ug/Kg	5	☼	8270C	Total/NA
Pyrene	660		180	64	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	59		17	6.7	ug/Kg	1	☼	8082	Total/NA
PCB-1254	43	B	17	3.7	ug/Kg	1	☼	8082	Total/NA
Arsenic	7.0		0.95	0.21	mg/Kg	1	☼	6010B	Total/NA
Barium	62		0.95	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.4		0.19	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	41		0.95	0.16	mg/Kg	1	☼	6010B	Total/NA
Lead	330		0.47	0.16	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.36	J	0.95	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.18	J	0.47	0.057	mg/Kg	1	☼	6010B	Total/NA
Mercury	210		16	5.0	ug/Kg	1	☼	7471A	Total/NA

## Client Sample ID: B83 (2-4)

Lab Sample ID: 500-47663-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	120		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA

## Client Sample ID: B2 (0-2)

Lab Sample ID: 500-47663-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20		14	7.3	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	120		120	28	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	2200		58	9.6	ug/Kg	50	☼	8260B	Total/NA
Toluene	24		14	6.6	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	69		29	11	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	150		29	3.9	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	110	J	190	96	ug/Kg	5	☼	8270C	Total/NA
Acenaphthene	58	J	190	58	ug/Kg	5	☼	8270C	Total/NA
Acenaphthylene	83	J	190	44	ug/Kg	5	☼	8270C	Total/NA
Anthracene	260		190	45	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]anthracene	950		190	40	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	930		190	35	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	1600		190	37	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	660		190	65	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	1700		190	46	ug/Kg	5	☼	8270C	Total/NA
Chrysene	1100		190	43	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	200		190	54	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	1900		190	79	ug/Kg	5	☼	8270C	Total/NA
Fluorene	76	J	190	44	ug/Kg	5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	530		190	65	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	72	J	190	37	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	1100		190	81	ug/Kg	5	☼	8270C	Total/NA
Pyrene	1600		190	70	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	45000		19000	7500	ug/Kg	1000	☼	8082	Total/NA
Arsenic	11		1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	2.5		0.23	0.057	mg/Kg	1	☼	6010B	Total/NA

# Detection Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B2 (0-2) (Continued)

Lab Sample ID: 500-47663-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	68		1.2	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	280		0.58	0.20	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	1.2	0.33	mg/Kg	1	☼	6010B	Total/NA
Silver	0.48	J	0.58	0.069	mg/Kg	1	☼	6010B	Total/NA
Mercury	210		19	5.8	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.55	J B ^	0.58	0.19	mg/Kg	1	☼	9014	Total/NA

## Client Sample ID: B84 (2-4)

Lab Sample ID: 500-47663-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	94	J	120	13	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	63	J	120	12	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	37		15	7.6	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	98	J	120	30	ug/Kg	50	☼	8260B	Total/NA
Toluene	27		15	6.9	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	600		30	11	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	94		30	4.1	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene - DL	27000		600	100	ug/Kg	500	☼	8260B	Total/NA
1-Methylnaphthalene	300		190	95	ug/Kg	5	☼	8270C	Total/NA
2-Methylnaphthalene	290	J	960	250	ug/Kg	5	☼	8270C	Total/NA
Anthracene	70	J	190	45	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]anthracene	250		190	40	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	280		190	35	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	380		190	37	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	200		190	65	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	130	J	190	46	ug/Kg	5	☼	8270C	Total/NA
Chrysene	310		190	43	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	54	J	190	54	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	440		190	78	ug/Kg	5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	160	J	190	65	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	110	J	190	37	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	590		190	80	ug/Kg	5	☼	8270C	Total/NA
Pyrene	440		190	69	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	1700		190	76	ug/Kg	10	☼	8082	Total/NA
Arsenic	3.8		1.1	0.23	mg/Kg	1	☼	6010B	Total/NA
Barium	57		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.65		0.21	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	69		0.53	0.18	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.51	J	1.1	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.084	J	0.53	0.064	mg/Kg	1	☼	6010B	Total/NA
Mercury	140		19	6.0	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.31	J B	0.56	0.19	mg/Kg	1	☼	9014	Total/NA

## Client Sample ID: B50 (9.5-11.5)

Lab Sample ID: 500-47663-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	15	J B	19	4.2	ug/Kg	1	☼	8082	Total/NA
Arsenic	2.2		1.1	0.25	mg/Kg	1	☼	6010B	Total/NA
Barium	79		1.1	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.081	J	0.23	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8		1.1	0.19	mg/Kg	1	☼	6010B	Total/NA
Lead	5.3		0.57	0.20	mg/Kg	1	☼	6010B	Total/NA



# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B50 (9.5-11.5) (Continued)**

**Lab Sample ID: 500-47663-11**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.087	J	0.57	0.068	mg/Kg	1	☼	6010B	Total/NA

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# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

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



# Sample Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-47663-1	B34 (0-1)	Solid	06/21/12 09:00	06/26/12 10:30
500-47663-2	B34 (2-4)	Solid	06/21/12 09:05	06/26/12 10:30
500-47663-3	B23 (0-1)	Solid	06/21/12 09:30	06/26/12 10:30
500-47663-4	B42 (0-1)	Solid	06/21/12 11:30	06/26/12 10:30
500-47663-5	B42 (2-4)	Solid	06/21/12 11:35	06/26/12 10:30
500-47663-6	B50 (0-1)	Solid	06/21/12 13:00	06/26/12 10:30
500-47663-7	B83 (0-1)	Solid	06/21/12 12:35	06/26/12 10:30
500-47663-8	B83 (2-4)	Solid	06/21/12 12:40	06/26/12 10:30
500-47663-9	B2 (0-2)	Solid	06/21/12 10:10	06/26/12 10:30
500-47663-10	B84 (2-4)	Solid	06/21/12 10:30	06/26/12 10:30
500-47663-11	B50 (9.5-11.5)	Solid	06/21/12 13:30	06/26/12 10:30



# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B34 (0-1)**

**Lab Sample ID: 500-47663-1**

**Date Collected: 06/21/12 09:00**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1,1-Trichloroethane	<12		60	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1,2,2-Tetrachloroethane	<14		60	14	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1,2-Trichloroethane	<17		60	17	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1-Dichloroethane	<11		60	11	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1-Dichloroethene	<18		60	18	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,1-Dichloropropene	<21		60	21	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2,3-Trichlorobenzene	<21	*	120	21	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2,3-Trichloropropane	<34		120	34	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2,4-Trichlorobenzene	<23	*	120	23	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2-Dibromo-3-Chloropropane	<52		120	52	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2-Dichloroethane	<17		60	17	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,2-Dichloropropane	<12		60	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,3-Dichloropropane	<8.1		60	8.1	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
2,2-Dichloropropane	<19		60	19	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
2-Chlorotoluene	<12		60	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
4-Chlorotoluene	<12		60	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Benzene	<4.5		15	4.5	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Bromobenzene	<26		120	26	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Bromochloromethane	<23		120	23	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Bromoform	<27		120	27	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Bromomethane	<41		120	41	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Carbon tetrachloride	<15		60	15	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Chlorobenzene	<8.6		60	8.6	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Chloroethane	<26		120	26	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Chloroform	<12		60	12	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Chloromethane	<28		120	28	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
cis-1,2-Dichloroethene	<7.4		60	7.4	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
cis-1,3-Dichloropropene	<11		60	11	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Dibromomethane	<29		120	29	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Ethylbenzene	<7.6		15	7.6	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Isopropyl ether	<8.8		120	8.8	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Methylene Chloride	<41		300	41	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Naphthalene	<30		120	30	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
n-Butylbenzene	<7.8		60	7.8	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
sec-Butylbenzene	<9.3		60	9.3	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Styrene	<5.9		60	5.9	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B34 (0-1)**

**Lab Sample ID: 500-47663-1**

**Date Collected: 06/21/12 09:00**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 82.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<8.2		60	8.2	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Tetrachloroethene	<10		60	10	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Toluene	<6.9		15	6.9	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
trans-1,2-Dichloroethene	<15		60	15	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
trans-1,3-Dichloropropene	<13		60	13	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Trichloroethene	<11		30	11	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Vinyl chloride	<6.3		15	6.3	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50
Xylenes, Total	<4.1		30	4.1	ug/Kg	☼	06/21/12 09:00	07/03/12 02:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 131	06/21/12 09:00	07/03/12 02:56	50
4-Bromofluorobenzene (Surr)	96		79 - 120	06/21/12 09:00	07/03/12 02:56	50
Dibromofluoromethane	99		74 - 123	06/21/12 09:00	07/03/12 02:56	50
Toluene-d8 (Surr)	97		80 - 120	06/21/12 09:00	07/03/12 02:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<19		39	19	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
2-Methylnaphthalene	<50		200	50	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
Acenaphthene	<12		39	12	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
Acenaphthylene	<8.9		39	8.9	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Anthracene</b>	<b>19</b>	<b>J</b>	39	9.1	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Benzo[a]anthracene</b>	<b>97</b>		39	8.1	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Benzo[a]pyrene</b>	<b>96</b>		39	7.1	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Benzo[b]fluoranthene</b>	<b>150</b>		39	7.5	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Benzo[g,h,i]perylene</b>	<b>94</b>		39	13	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Benzo[k]fluoranthene</b>	<b>54</b>		39	9.3	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Chrysene</b>	<b>120</b>		39	8.8	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Dibenz(a,h)anthracene</b>	<b>27</b>	<b>J</b>	39	11	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Fluoranthene</b>	<b>140</b>		39	16	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
Fluorene	<8.8		39	8.8	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>71</b>		39	13	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
Naphthalene	<7.5		39	7.5	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Phenanthrene</b>	<b>90</b>		39	16	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1
<b>Pyrene</b>	<b>140</b>		39	14	ug/Kg	☼	07/05/12 08:07	07/07/12 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		30 - 119	07/05/12 08:07	07/07/12 21:59	1
Nitrobenzene-d5	67		30 - 115	07/05/12 08:07	07/07/12 21:59	1
Terphenyl-d14	106		36 - 134	07/05/12 08:07	07/07/12 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
PCB-1221	<8.8		20	8.8	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
PCB-1232	<8.7		20	8.7	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
<b>PCB-1248</b>	<b>230</b>		20	7.9	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
<b>PCB-1254</b>	<b>250</b>	<b>B</b>	20	4.3	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1
PCB-1260	<9.8		20	9.8	ug/Kg	☼	07/04/12 17:50	07/05/12 20:10	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B34 (0-1)

Lab Sample ID: 500-47663-1

Date Collected: 06/21/12 09:00

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 82.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		50 - 116	07/04/12 17:50	07/05/12 20:10	1
DCB Decachlorobiphenyl	93		48 - 142	07/04/12 17:50	07/05/12 20:10	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		1.2	0.26	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Barium	110		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Cadmium	0.36		0.24	0.059	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Chromium	46		1.2	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Lead	26		0.60	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Selenium	0.39	J	1.2	0.34	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1
Silver	0.20	J	0.60	0.072	mg/Kg	☼	07/02/12 16:25	07/08/12 17:50	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	130		19	5.7	ug/Kg	☼	07/09/12 09:00	07/09/12 11:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.46	J B ^	0.59	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B34 (2-4)

Lab Sample ID: 500-47663-2

Date Collected: 06/21/12 09:05

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

### 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	☼	06/21/12 09:05	07/03/12 03:20	50
1,1,1-Trichloroethane	<13		63	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,1,2,2-Tetrachloroethane	<15		63	15	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,1,2-Trichloroethane	<18		63	18	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,1-Dichloroethane	<12		63	12	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,1-Dichloroethene	<19		63	19	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,1-Dichloropropene	<22		63	22	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2,3-Trichlorobenzene	<22	*	130	22	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2,3-Trichloropropane	<36		130	36	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2,4-Trichlorobenzene	<24	*	130	24	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2,4-Trimethylbenzene	<13		130	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2-Dibromo-3-Chloropropane	<55		130	55	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2-Dichloroethane	<18		63	18	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,2-Dichloropropane	<12		63	12	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,3-Dichlorobenzene	<16		130	16	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,3-Dichloropropane	<8.4		63	8.4	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
2,2-Dichloropropane	<20		63	20	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
2-Chlorotoluene	<13		63	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
4-Chlorotoluene	<12		63	12	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Benzene	<4.7		16	4.7	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Bromobenzene	<27		130	27	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B34 (2-4)**

**Lab Sample ID: 500-47663-2**

**Date Collected: 06/21/12 09:05**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 80.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<24		130	24	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Bromodichloromethane	<21		130	21	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Bromoform	<28		130	28	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Bromomethane	<43		130	43	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Carbon tetrachloride	<16		63	16	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Chlorobenzene	<9.0		63	9.0	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Chloroethane	<27		130	27	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Chloroform	<13		63	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Chloromethane	<29		130	29	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
cis-1,2-Dichloroethene	<7.7		63	7.7	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
cis-1,3-Dichloropropene	<11		63	11	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Dibromomethane	<30		130	30	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Dichlorodifluoromethane	<32		130	32	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Ethylbenzene	<7.9		16	7.9	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Isopropyl ether	<9.2		130	9.2	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Methyl tert-butyl ether	<27		130	27	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Methylene Chloride	<43		310	43	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Naphthalene	<31		130	31	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
n-Butylbenzene	<8.1		63	8.1	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
sec-Butylbenzene	<9.7		63	9.7	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Styrene	<6.2		63	6.2	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
tert-Butylbenzene	<8.5		63	8.5	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Tetrachloroethene	<10		63	10	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Toluene	<7.2		16	7.2	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
trans-1,2-Dichloroethene	<16		63	16	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
trans-1,3-Dichloropropene	<13		63	13	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Trichloroethene	<12		31	12	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Trichlorofluoromethane	<26		130	26	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Vinyl chloride	<6.5		16	6.5	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Xylenes, Total	<4.3		31	4.3	ug/Kg	☼	06/21/12 09:05	07/03/12 03:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 131				06/21/12 09:05	07/03/12 03:20	50
4-Bromofluorobenzene (Surr)	97		79 - 120				06/21/12 09:05	07/03/12 03:20	50
Dibromofluoromethane	102		74 - 123				06/21/12 09:05	07/03/12 03:20	50
Toluene-d8 (Surr)	98		80 - 120				06/21/12 09:05	07/03/12 03:20	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<19		39	19	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
2-Methylnaphthalene	<50		200	50	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Acenaphthene	<12		39	12	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Acenaphthylene	<8.9		39	8.9	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Anthracene	<9.1		39	9.1	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
<b>Benzo[a]anthracene</b>	<b>19 J</b>		39	8.1	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
<b>Benzo[a]pyrene</b>	<b>29 J</b>		39	7.1	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B34 (2-4)**

**Lab Sample ID: 500-47663-2**

Date Collected: 06/21/12 09:05

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	40		39	7.5	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Benzo[g,h,i]perylene	13	J	39	13	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Benzo[k]fluoranthene	17	J	39	9.3	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Chrysene	25	J	39	8.8	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Dibenz(a,h)anthracene	<11		39	11	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Fluoranthene	20	J	39	16	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Fluorene	<8.8		39	8.8	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Indeno[1,2,3-cd]pyrene	<13		39	13	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Naphthalene	<7.5		39	7.5	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Phenanthrene	<16		39	16	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	1
Pyrene	22	J	39	14	ug/Kg	☼	07/05/12 08:07	07/07/12 22:19	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	52		30 - 119				07/05/12 08:07	07/07/12 22:19	1
Nitrobenzene-d5	40		30 - 115				07/05/12 08:07	07/07/12 22:19	1
Terphenyl-d14	82		36 - 134				07/05/12 08:07	07/07/12 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.3		21	7.3	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1221	<9.0		21	9.0	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1232	<8.9		21	8.9	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1242	<6.7		21	6.7	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1248	65		21	8.1	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1254	54	B	21	4.4	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	1
PCB-1260	<10		21	10	ug/Kg	☼	07/04/12 17:50	07/05/12 20:24	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	73		50 - 116				07/04/12 17:50	07/05/12 20:24	1
DCB Decachlorobiphenyl	104		48 - 142				07/04/12 17:50	07/05/12 20:24	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		1.2	0.26	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Barium	84		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Cadmium	<0.059		0.24	0.059	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Chromium	22		1.2	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Lead	8.9		0.60	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Selenium	<0.34		1.2	0.34	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1
Silver	<0.072		0.60	0.072	mg/Kg	☼	07/02/12 16:25	07/08/12 17:56	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	28		19	5.7	ug/Kg	☼	07/09/12 09:00	07/09/12 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.56	B ^	0.55	0.18	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B23 (0-1)**

**Lab Sample ID: 500-47663-3**

**Date Collected: 06/21/12 09:30**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 66.2**

**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	☼	06/21/12 09:30	07/03/12 03:44	50
1,1,1-Trichloroethane	<15		75	15	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,1,2,2-Tetrachloroethane	<18		75	18	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,1,2-Trichloroethane	<21		75	21	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,1-Dichloroethane	<14		75	14	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,1-Dichloroethene	<23		75	23	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,1-Dichloropropene	<26		75	26	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2,3-Trichlorobenzene	<26 *		150	26	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2,3-Trichloropropane	<43		150	43	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2,4-Trichlorobenzene	<28 *		150	28	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2,4-Trimethylbenzene	<16		150	16	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2-Dibromo-3-Chloropropane	<66		150	66	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2-Dibromoethane	<24		150	24	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2-Dichlorobenzene	<15		150	15	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2-Dichloroethane	<21		75	21	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,2-Dichloropropane	<15		75	15	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,3,5-Trimethylbenzene	<16		150	16	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,3-Dichlorobenzene	<19		150	19	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,3-Dichloropropane	<10		75	10	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
1,4-Dichlorobenzene	<13		150	13	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
2,2-Dichloropropane	<24		75	24	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
2-Chlorotoluene	<16		75	16	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
4-Chlorotoluene	<15		75	15	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Benzene	<5.6		19	5.6	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Bromobenzene	<32		150	32	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Bromochloromethane	<28		150	28	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Bromodichloromethane	<25		150	25	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Bromoform	<33		150	33	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Bromomethane	<51		150	51	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Carbon tetrachloride	<19		75	19	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Chlorobenzene	<11		75	11	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Chloroethane	<33		150	33	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Chloroform	<15		75	15	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Chloromethane	<35		150	35	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
cis-1,2-Dichloroethene	<9.3		75	9.3	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
cis-1,3-Dichloropropene	<13		75	13	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Dibromochloromethane	<26		150	26	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Dibromomethane	<36		150	36	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Dichlorodifluoromethane	<39		150	39	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Ethylbenzene	<9.5		19	9.5	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Hexachlorobutadiene	<26		150	26	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Isopropyl ether	<11		150	11	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Isopropylbenzene	<19		150	19	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Methyl tert-butyl ether	<32		150	32	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Methylene Chloride	<51		380	51	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Naphthalene	<37		150	37	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
n-Butylbenzene	<9.7		75	9.7	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
N-Propylbenzene	<13		150	13	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
p-Isopropyltoluene	<14		150	14	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
sec-Butylbenzene	<12		75	12	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Styrene	<7.4		75	7.4	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B23 (0-1)**

**Lab Sample ID: 500-47663-3**

**Date Collected: 06/21/12 09:30**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 66.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<10		75	10	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Tetrachloroethene	<13		75	13	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Toluene	<8.7		19	8.7	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
trans-1,2-Dichloroethene	<19		75	19	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
trans-1,3-Dichloropropene	<16		75	16	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Trichloroethene	<14		38	14	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Trichlorofluoromethane	<31		150	31	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Vinyl chloride	<7.8		19	7.8	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50
Xylenes, Total	<5.2		38	5.2	ug/Kg	☼	06/21/12 09:30	07/03/12 03:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 131	06/21/12 09:30	07/03/12 03:44	50
4-Bromofluorobenzene (Surr)	101		79 - 120	06/21/12 09:30	07/03/12 03:44	50
Dibromofluoromethane	102		74 - 123	06/21/12 09:30	07/03/12 03:44	50
Toluene-d8 (Surr)	99		80 - 120	06/21/12 09:30	07/03/12 03:44	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<120		230	120	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
2-Methylnaphthalene	<310		1200	310	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Acenaphthene	<71		230	71	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Acenaphthylene	<54		230	54	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Anthracene	<55		230	55	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Benzo[a]anthracene</b>	<b>100</b>	<b>J</b>	230	49	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Benzo[a]pyrene</b>	<b>180</b>	<b>J</b>	230	43	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Benzo[b]fluoranthene</b>	<b>310</b>		230	46	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Benzo[g,h,i]perylene</b>	<b>150</b>	<b>J</b>	230	80	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Benzo[k]fluoranthene	<56		230	56	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Chrysene</b>	<b>170</b>	<b>J</b>	230	53	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Dibenz(a,h)anthracene	<66		230	66	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Fluoranthene</b>	<b>180</b>	<b>J</b>	230	97	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Fluorene	<54		230	54	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>110</b>	<b>J</b>	230	80	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
Naphthalene	<45		230	45	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Phenanthrene</b>	<b>130</b>	<b>J</b>	230	99	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5
<b>Pyrene</b>	<b>190</b>	<b>J</b>	230	85	ug/Kg	☼	07/05/12 08:07	07/07/12 22:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		30 - 119	07/05/12 08:07	07/07/12 22:38	5
Nitrobenzene-d5	52		30 - 115	07/05/12 08:07	07/07/12 22:38	5
Terphenyl-d14	87		36 - 134	07/05/12 08:07	07/07/12 22:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<42		120	42	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
PCB-1221	<53		120	53	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
PCB-1232	<52		120	52	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
PCB-1242	<39		120	39	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
<b>PCB-1248</b>	<b>820</b>		120	47	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
PCB-1254	<26		120	26	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5
PCB-1260	<59		120	59	ug/Kg	☼	07/04/12 17:50	07/06/12 10:10	5

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B23 (0-1)

Lab Sample ID: 500-47663-3

Date Collected: 06/21/12 09:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 66.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	108		50 - 116	07/04/12 17:50	07/06/12 10:10	5
DCB Decachlorobiphenyl	104		48 - 142	07/04/12 17:50	07/06/12 10:10	5

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.4	0.31	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Barium	90		1.4	0.17	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Cadmium	0.85		0.29	0.071	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Chromium	15		1.4	0.24	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Lead	24		0.72	0.25	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Selenium	<0.41		1.4	0.41	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1
Silver	<0.086		0.72	0.086	mg/Kg	☼	07/02/12 16:25	07/08/12 18:02	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	52		22	6.7	ug/Kg	☼	07/09/12 09:00	07/09/12 11:38	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.47	J B ^	0.66	0.22	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B42 (0-1)

Lab Sample ID: 500-47663-4

Date Collected: 06/21/12 11:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1,1-Trichloroethane	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1,2,2-Tetrachloroethane	<13		54	13	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1,2-Trichloroethane	<15		54	15	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1-Dichloroethane	<10		54	10	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1-Dichloroethene	<17		54	17	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,1-Dichloropropene	<19		54	19	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2,3-Trichlorobenzene	<19	*	110	19	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2,4-Trichlorobenzene	<20	*	110	20	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>1,2,4-Trimethylbenzene</b>	<b>130</b>		110	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2-Dibromo-3-Chloropropane	<47		110	47	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2-Dichloroethane	<15		54	15	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,2-Dichloropropane	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,3-Dichloropropane	<7.3		54	7.3	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
1,4-Dichlorobenzene	<9.4		110	9.4	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
2,2-Dichloropropane	<17		54	17	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
2-Chlorotoluene	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
4-Chlorotoluene	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Benzene</b>	<b>33</b>		14	4.0	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Bromobenzene	<23		110	23	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B42 (0-1)**

**Lab Sample ID: 500-47663-4**

**Date Collected: 06/21/12 11:30**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 91.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<20		110	20	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Bromoform	<24		110	24	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Bromomethane	<37		110	37	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Carbon tetrachloride	<14		54	14	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Chlorobenzene	<7.7		54	7.7	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Chloroethane	<24		110	24	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Chloroform	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Chloromethane	<25		110	25	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
cis-1,2-Dichloroethene	<6.7		54	6.7	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
cis-1,3-Dichloropropene	<9.6		54	9.6	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Dibromomethane	<26		110	26	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Ethylbenzene</b>	<b>70</b>		14	6.8	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Methylene Chloride	<37		270	37	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Naphthalene</b>	<b>290</b>		110	27	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
n-Butylbenzene	<7.0		54	7.0	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
N-Propylbenzene	<9.5		110	9.5	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
sec-Butylbenzene	<8.3		54	8.3	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Styrene	<5.3		54	5.3	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
tert-Butylbenzene	<7.4		54	7.4	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Tetrachloroethene</b>	<b>170</b>		54	9.0	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Toluene</b>	<b>190</b>		14	6.2	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
trans-1,2-Dichloroethene	<14		54	14	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
trans-1,3-Dichloropropene	<11		54	11	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Trichloroethene	<10		27	10	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Trichlorofluoromethane	<22		110	22	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
Vinyl chloride	<5.6		14	5.6	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50
<b>Xylenes, Total</b>	<b>440</b>		27	3.7	ug/Kg	☼	06/21/12 11:30	07/03/12 04:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 131	06/21/12 11:30	07/03/12 04:08	50
4-Bromofluorobenzene (Surr)	95		79 - 120	06/21/12 11:30	07/03/12 04:08	50
Dibromofluoromethane	99		74 - 123	06/21/12 11:30	07/03/12 04:08	50
Toluene-d8 (Surr)	98		80 - 120	06/21/12 11:30	07/03/12 04:08	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1-Methylnaphthalene</b>	<b>410</b>		180	89	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>2-Methylnaphthalene</b>	<b>470</b>	J	900	230	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Acenaphthene	<54		180	54	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>Acenaphthylene</b>	<b>47</b>	J	180	41	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>Anthracene</b>	<b>110</b>	J	180	42	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>Benzo[a]anthracene</b>	<b>190</b>		180	38	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>Benzo[a]pyrene</b>	<b>200</b>		180	33	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B42 (0-1)**

**Lab Sample ID: 500-47663-4**

Date Collected: 06/21/12 11:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 91.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	330		180	35	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Benzo[g,h,i]perylene	230		180	60	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Benzo[k]fluoranthene	150	J	180	43	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Chrysene	260		180	40	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Dibenz(a,h)anthracene	65	J	180	50	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Fluoranthene	370		180	73	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Fluorene	<41		180	41	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Indeno[1,2,3-cd]pyrene	160	J	180	60	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Naphthalene	310		180	35	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Phenanthrene	780		180	75	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
Pyrene	350		180	65	ug/Kg	☼	07/05/12 08:07	07/07/12 22:58	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	90		30 - 119				07/05/12 08:07	07/07/12 22:58	5
Nitrobenzene-d5	69		30 - 115				07/05/12 08:07	07/07/12 22:58	5
Terphenyl-d14	100		36 - 134				07/05/12 08:07	07/07/12 22:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<13		36	13	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1221	<16		36	16	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1232	<16		36	16	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1242	<12		36	12	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1248	320		36	14	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1254	230	B	36	7.7	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
PCB-1260	<18		36	18	ug/Kg	☼	07/04/12 17:50	07/06/12 10:24	2
<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	105		50 - 116				07/04/12 17:50	07/06/12 10:24	2
DCB Decachlorobiphenyl	108		48 - 142				07/04/12 17:50	07/06/12 10:24	2

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		1.1	0.24	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Barium	52		1.1	0.13	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Cadmium	1.2		0.22	0.054	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Chromium	12		1.1	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Lead	160		0.54	0.19	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Selenium	0.67	J	1.1	0.31	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1
Silver	0.14	J	0.54	0.065	mg/Kg	☼	07/02/12 16:25	07/08/12 18:09	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	250		18	5.4	ug/Kg	☼	07/09/12 09:00	07/09/12 11:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.16		0.47	0.16	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B42 (2-4)**

**Lab Sample ID: 500-47663-5**

**Date Collected: 06/21/12 11:35**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		120	22	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1,1-Trichloroethane	<13		62	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1,2,2-Tetrachloroethane	<15		62	15	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1,2-Trichloroethane	<17		62	17	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1-Dichloroethane	<12		62	12	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1-Dichloroethene	<19		62	19	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,1-Dichloropropene	<21		62	21	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2,3-Trichlorobenzene	<22 *		120	22	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2,3-Trichloropropane	<36		120	36	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2,4-Trichlorobenzene	<24 *		120	24	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2-Dibromo-3-Chloropropane	<54		120	54	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2-Dibromoethane	<20		120	20	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2-Dichlorobenzene	<13		120	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2-Dichloroethane	<18		62	18	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,2-Dichloropropane	<12		62	12	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,3-Dichloropropane	<8.4		62	8.4	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
2,2-Dichloropropane	<20		62	20	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
2-Chlorotoluene	<13		62	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
4-Chlorotoluene	<12		62	12	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Benzene	<4.6		16	4.6	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Bromobenzene	<27		120	27	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Bromochloromethane	<24		120	24	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Bromoform	<28		120	28	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Bromomethane	<43		120	43	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Carbon tetrachloride	<16		62	16	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Chlorobenzene	<8.9		62	8.9	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Chloroethane	<27		120	27	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Chloroform	<13		62	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Chloromethane	<29		120	29	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
cis-1,2-Dichloroethene	<7.7		62	7.7	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
cis-1,3-Dichloropropene	<11		62	11	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Dibromochloromethane	<22		120	22	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Dibromomethane	<30		120	30	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Dichlorodifluoromethane	<32		120	32	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Ethylbenzene	<7.9		16	7.9	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Hexachlorobutadiene	<22		120	22	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Isopropyl ether	<9.2		120	9.2	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Isopropylbenzene	<16		120	16	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Methyl tert-butyl ether	<27		120	27	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Methylene Chloride	<43		310	43	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Naphthalene	<31		120	31	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
n-Butylbenzene	<8.1		62	8.1	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
p-Isopropyltoluene	<12		120	12	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
sec-Butylbenzene	<9.6		62	9.6	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Styrene	<6.2		62	6.2	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B42 (2-4)**

**Lab Sample ID: 500-47663-5**

**Date Collected: 06/21/12 11:35**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 79.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<8.5		62	8.5	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Tetrachloroethene	<10		62	10	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Toluene	<7.2		16	7.2	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
trans-1,2-Dichloroethene	<16		62	16	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
trans-1,3-Dichloropropene	<13		62	13	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Trichloroethene	<12		31	12	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Trichlorofluoromethane	<26		120	26	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Vinyl chloride	<6.5		16	6.5	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	50
Xylenes, Total	<4.3		31	4.3	ug/Kg	☼	06/21/12 11:35	07/03/12 04:32	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)	97		75 - 131				06/21/12 11:35	07/03/12 04:32	50
4-Bromofluorobenzene (Surr)	95		79 - 120				06/21/12 11:35	07/03/12 04:32	50
Dibromofluoromethane	98		74 - 123				06/21/12 11:35	07/03/12 04:32	50
Toluene-d8 (Surr)	98		80 - 120				06/21/12 11:35	07/03/12 04:32	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<20		40	20	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
2-Methylnaphthalene	<53		200	53	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Acenaphthene	<12		40	12	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Acenaphthylene	<9.4		40	9.4	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Anthracene	<9.6		40	9.6	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Benzo[a]anthracene	<8.5		40	8.5	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
<b>Benzo[a]pyrene</b>	<b>11 J</b>		40	7.4	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Benzo[b]fluoranthene	<7.9		40	7.9	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Benzo[g,h,i]perylene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Benzo[k]fluoranthene	<9.7		40	9.7	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Chrysene	<9.2		40	9.2	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Dibenz(a,h)anthracene	<11		40	11	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Fluoranthene	<17		40	17	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Fluorene	<9.3		40	9.3	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Indeno[1,2,3-cd]pyrene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Naphthalene	<7.9		40	7.9	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Phenanthrene	<17		40	17	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	1
Pyrene	<15		40	15	ug/Kg	☼	07/05/12 08:07	07/07/12 23:18	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	50		30 - 119				07/05/12 08:07	07/07/12 23:18	1
Nitrobenzene-d5	50		30 - 115				07/05/12 08:07	07/07/12 23:18	1
Terphenyl-d14	72		36 - 134				07/05/12 08:07	07/07/12 23:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.1		20	7.1	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1221	<8.9		20	8.9	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1232	<8.8		20	8.8	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1242	<6.6		20	6.6	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1248	<7.9		20	7.9	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1254	<4.3		20	4.3	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1
PCB-1260	<9.9		20	9.9	ug/Kg	☼	07/04/12 17:50	07/05/12 21:07	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B42 (2-4)

Lab Sample ID: 500-47663-5

Date Collected: 06/21/12 11:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 79.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		50 - 116	07/04/12 17:50	07/05/12 21:07	1
DCB Decachlorobiphenyl	103		48 - 142	07/04/12 17:50	07/05/12 21:07	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		1.1	0.24	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Barium	110		1.1	0.13	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Cadmium	<0.054		0.22	0.054	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Chromium	20		1.1	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Lead	12		0.55	0.19	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Selenium	0.50	J	1.1	0.31	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1
Silver	<0.066		0.55	0.066	mg/Kg	☼	07/02/12 16:25	07/08/12 18:30	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	35		19	5.7	ug/Kg	☼	07/09/12 09:00	07/09/12 11:42	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.57	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B50 (0-1)

Lab Sample ID: 500-47663-6

Date Collected: 06/21/12 13:00

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		100	18	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1,1-Trichloroethane	<10		51	10	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1,2,2-Tetrachloroethane	<12		51	12	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1,2-Trichloroethane	<14		51	14	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1-Dichloroethane	<9.5		51	9.5	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1-Dichloroethene	<16		51	16	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,1-Dichloropropene	<18		51	18	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2,3-Trichlorobenzene	<18	*	100	18	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2,3-Trichloropropane	<30		100	30	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2,4-Trichlorobenzene	<19	*	100	19	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2-Dibromo-3-Chloropropane	<45		100	45	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2-Dibromoethane	<16		100	16	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2-Dichlorobenzene	<11		100	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2-Dichloroethane	<15		51	15	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,2-Dichloropropane	<10		51	10	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,3,5-Trimethylbenzene	<11		100	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,3-Dichloropropane	<6.9		51	6.9	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
1,4-Dichlorobenzene	<9.0		100	9.0	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
2,2-Dichloropropane	<16		51	16	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
2-Chlorotoluene	<11		51	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
4-Chlorotoluene	<10		51	10	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Benzene	<3.8		13	3.8	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Bromobenzene	<22		100	22	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B50 (0-1)**

**Lab Sample ID: 500-47663-6**

**Date Collected: 06/21/12 13:00**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 95.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<19		100	19	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Bromodichloromethane	<17		100	17	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Bromoform	<23		100	23	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Bromomethane	<35		100	35	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Carbon tetrachloride	<13		51	13	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Chlorobenzene	<7.4		51	7.4	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Chloroethane	<22		100	22	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Chloroform	<11		51	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Chloromethane	<24		100	24	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
cis-1,2-Dichloroethene	<6.3		51	6.3	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
cis-1,3-Dichloropropene	<9.2		51	9.2	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Dibromochloromethane	<18		100	18	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Dibromomethane	<25		100	25	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Dichlorodifluoromethane	<26		100	26	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Ethylbenzene	<6.5		13	6.5	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Hexachlorobutadiene	<18		100	18	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Isopropyl ether	<7.6		100	7.6	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Isopropylbenzene	<13		100	13	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Methyl tert-butyl ether	<22		100	22	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Methylene Chloride	<35		260	35	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Naphthalene	<25		100	25	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
n-Butylbenzene	<6.6		51	6.6	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
N-Propylbenzene	<9.0		100	9.0	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
p-Isopropyltoluene	<9.5		100	9.5	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
sec-Butylbenzene	<7.9		51	7.9	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Styrene	<5.1		51	5.1	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
tert-Butylbenzene	<7.0		51	7.0	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
<b>Tetrachloroethene</b>	<b>120</b>		51	8.6	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Toluene	<5.9		13	5.9	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
trans-1,2-Dichloroethene	<13		51	13	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
trans-1,3-Dichloropropene	<11		51	11	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
<b>Trichloroethene</b>	<b>24 J</b>		26	9.6	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Trichlorofluoromethane	<21		100	21	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Vinyl chloride	<5.4		13	5.4	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Xylenes, Total	<3.5		26	3.5	ug/Kg	☼	06/21/12 13:00	07/03/12 04:56	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 131				06/21/12 13:00	07/03/12 04:56	50
4-Bromofluorobenzene (Surr)	99		79 - 120				06/21/12 13:00	07/03/12 04:56	50
Dibromofluoromethane	102		74 - 123				06/21/12 13:00	07/03/12 04:56	50
Toluene-d8 (Surr)	99		80 - 120				06/21/12 13:00	07/03/12 04:56	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<17		34	17	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
2-Methylnaphthalene	<44		170	44	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Acenaphthene	<10		34	10	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Acenaphthylene	<7.8		34	7.8	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
<b>Anthracene</b>	<b>17 J</b>		34	8.0	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
<b>Benzo[a]anthracene</b>	<b>91</b>		34	7.2	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
<b>Benzo[a]pyrene</b>	<b>150</b>		34	6.2	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B50 (0-1)**

**Lab Sample ID: 500-47663-6**

Date Collected: 06/21/12 13:00

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	130		34	6.6	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Benzo[g,h,i]perylene	180		34	12	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Benzo[k]fluoranthene	84		34	8.1	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Chrysene	140		34	7.7	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Dibenz(a,h)anthracene	47		34	9.5	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Fluoranthene	140		34	14	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Fluorene	<7.8		34	7.8	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Indeno[1,2,3-cd]pyrene	89		34	12	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Naphthalene	7.9	J	34	6.6	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Phenanthrene	74		34	14	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	1
Pyrene	170		34	12	ug/Kg	☼	07/05/12 08:07	07/09/12 16:49	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	78		30 - 119				07/05/12 08:07	07/09/12 16:49	1
Nitrobenzene-d5	62		30 - 115				07/05/12 08:07	07/09/12 16:49	1
Terphenyl-d14	93		36 - 134				07/05/12 08:07	07/09/12 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<31		87	31	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1221	<38		87	38	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1232	<38		87	38	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1242	<29		87	29	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1248	500		87	34	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1254	470	B	87	19	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
PCB-1260	<43		87	43	ug/Kg	☼	07/04/12 17:50	07/06/12 10:39	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	115		50 - 116				07/04/12 17:50	07/06/12 10:39	5
DCB Decachlorobiphenyl	109		48 - 142				07/04/12 17:50	07/06/12 10:39	5

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		1.0	0.23	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Barium	22		1.0	0.12	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Cadmium	1.3		0.21	0.051	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Chromium	7.7		1.0	0.17	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Lead	250		0.52	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Selenium	<0.30		1.0	0.30	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1
Silver	0.25	J	0.52	0.063	mg/Kg	☼	07/02/12 16:25	07/08/12 18:36	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39		16	5.0	ug/Kg	☼	07/09/12 09:00	07/09/12 11:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.51	0.17	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B83 (0-1)**

**Lab Sample ID: 500-47663-7**

**Date Collected: 06/21/12 12:35**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 92.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<19		110	19	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1,1-Trichloroethane	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1,2,2-Tetrachloroethane	<13		55	13	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1,2-Trichloroethane	<15		55	15	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1-Dichloroethane	<10		55	10	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1-Dichloroethene	<17		55	17	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,1-Dichloropropene	<19		55	19	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2,3-Trichlorobenzene	<19	*	110	19	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2,3-Trichloropropane	<31		110	31	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2,4-Trichlorobenzene	<21	*	110	21	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2,4-Trimethylbenzene	<12		110	12	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2-Dibromo-3-Chloropropane	<48		110	48	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2-Dichloroethane	<16		55	16	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,2-Dichloropropane	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,3-Dichloropropane	<7.3		55	7.3	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
1,4-Dichlorobenzene	<9.5		110	9.5	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
2,2-Dichloropropane	<17		55	17	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
2-Chlorotoluene	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
4-Chlorotoluene	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Benzene	<4.0		14	4.0	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Bromobenzene	<23		110	23	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Bromochloromethane	<21		110	21	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Bromoform	<24		110	24	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Bromomethane	<37		110	37	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Carbon tetrachloride	<14		55	14	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Chlorobenzene	<7.8		55	7.8	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Chloroethane	<24		110	24	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Chloroform	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Chloromethane	<25		110	25	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
cis-1,2-Dichloroethene	<6.7		55	6.7	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
cis-1,3-Dichloropropene	<9.7		55	9.7	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Dibromochloromethane	<19		110	19	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Dibromomethane	<26		110	26	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Dichlorodifluoromethane	<28		110	28	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Ethylbenzene	<6.9		14	6.9	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Hexachlorobutadiene	<19		110	19	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Isopropyl ether	<8.0		110	8.0	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Isopropylbenzene	<14		110	14	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Methylene Chloride	<37		270	37	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
<b>Naphthalene</b>	<b>71</b>	<b>J</b>	110	27	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
n-Butylbenzene	<7.0		55	7.0	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
N-Propylbenzene	<9.5		110	9.5	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
p-Isopropyltoluene	<10		110	10	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
sec-Butylbenzene	<8.4		55	8.4	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Styrene	<5.4		55	5.4	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B83 (0-1)**

**Lab Sample ID: 500-47663-7**

Date Collected: 06/21/12 12:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 92.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<7.4		55	7.4	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
<b>Tetrachloroethene</b>	<b>1200</b>		55	9.1	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
<b>Toluene</b>	<b>26</b>		14	6.3	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
trans-1,2-Dichloroethene	<14		55	14	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
trans-1,3-Dichloropropene	<11		55	11	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
<b>Trichloroethene</b>	<b>35</b>		27	10	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Trichlorofluoromethane	<23		110	23	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
Vinyl chloride	<5.7		14	5.7	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	50
<b>Xylenes, Total</b>	<b>69</b>		27	3.7	ug/Kg	☼	06/21/12 12:35	07/03/12 05:20	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)	99		75 - 131				06/21/12 12:35	07/03/12 05:20	50
4-Bromofluorobenzene (Surr)	98		79 - 120				06/21/12 12:35	07/03/12 05:20	50
Dibromofluoromethane	98		74 - 123				06/21/12 12:35	07/03/12 05:20	50
Toluene-d8 (Surr)	99		80 - 120				06/21/12 12:35	07/03/12 05:20	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<88		180	88	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
2-Methylnaphthalene	<230		890	230	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
Acenaphthene	<53		180	53	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Acenaphthylene</b>	<b>77</b>	<b>J</b>	180	41	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Anthracene</b>	<b>82</b>	<b>J</b>	180	41	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Benzo[a]anthracene</b>	<b>430</b>		180	37	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Benzo[a]pyrene</b>	<b>520</b>		180	32	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Benzo[b]fluoranthene</b>	<b>670</b>		180	34	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Benzo[g,h,i]perylene</b>	<b>530</b>		180	59	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Benzo[k]fluoranthene</b>	<b>320</b>		180	42	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Chrysene</b>	<b>530</b>		180	40	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Dibenz(a,h)anthracene</b>	<b>130</b>	<b>J</b>	180	49	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Fluoranthene</b>	<b>650</b>		180	72	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
Fluorene	<40		180	40	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>360</b>		180	59	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Naphthalene</b>	<b>47</b>	<b>J</b>	180	34	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Phenanthrene</b>	<b>340</b>		180	74	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Pyrene</b>	<b>660</b>		180	64	ug/Kg	☼	07/05/12 08:07	07/07/12 23:57	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	94		30 - 119				07/05/12 08:07	07/07/12 23:57	5
Nitrobenzene-d5	72		30 - 115				07/05/12 08:07	07/07/12 23:57	5
Terphenyl-d14	105		36 - 134				07/05/12 08:07	07/07/12 23:57	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.0		17	6.0	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
<b>PCB-1248</b>	<b>59</b>		17	6.7	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
<b>PCB-1254</b>	<b>43</b>	<b>B</b>	17	3.7	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	07/04/12 17:50	07/05/12 21:35	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B83 (0-1)

Lab Sample ID: 500-47663-7

Date Collected: 06/21/12 12:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 92.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		50 - 116	07/04/12 17:50	07/05/12 21:35	1
DCB Decachlorobiphenyl	94		48 - 142	07/04/12 17:50	07/05/12 21:35	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		0.95	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Barium	62		0.95	0.11	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Cadmium	1.4		0.19	0.047	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Chromium	41		0.95	0.16	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Lead	330		0.47	0.16	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Selenium	0.36	J	0.95	0.27	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1
Silver	0.18	J	0.47	0.057	mg/Kg	☼	07/02/12 16:25	07/08/12 18:42	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210		16	5.0	ug/Kg	☼	07/09/12 09:00	07/09/12 14:26	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.53	0.17	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B83 (2-4)

Lab Sample ID: 500-47663-8

Date Collected: 06/21/12 12:40

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1,1-Trichloroethane	<12		62	12	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1,2,2-Tetrachloroethane	<15		62	15	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1,2-Trichloroethane	<17		62	17	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1-Dichloroethane	<11		62	11	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1-Dichloroethene	<19		62	19	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,1-Dichloropropene	<21		62	21	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2,3-Trichlorobenzene	<22	*	120	22	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2,3-Trichloropropane	<36		120	36	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2,4-Trichlorobenzene	<23	*	120	23	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2-Dibromo-3-Chloropropane	<54		120	54	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2-Dichlorobenzene	<13		120	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2-Dichloroethane	<18		62	18	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,2-Dichloropropane	<12		62	12	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,3,5-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,3-Dichloropropane	<8.3		62	8.3	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
2,2-Dichloropropane	<20		62	20	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
2-Chlorotoluene	<13		62	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
4-Chlorotoluene	<12		62	12	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Benzene	<4.6		16	4.6	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Bromobenzene	<26		120	26	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B83 (2-4)**

**Lab Sample ID: 500-47663-8**

**Date Collected: 06/21/12 12:40**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 80.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<23		120	23	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Bromodichloromethane	<21		120	21	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Bromoform	<27		120	27	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Bromomethane	<42		120	42	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Carbon tetrachloride	<16		62	16	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Chlorobenzene	<8.9		62	8.9	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Chloroethane	<27		120	27	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Chloroform	<13		62	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Chloromethane	<29		120	29	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
cis-1,2-Dichloroethene	<7.6		62	7.6	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
cis-1,3-Dichloropropene	<11		62	11	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Dibromomethane	<30		120	30	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Dichlorodifluoromethane	<32		120	32	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Ethylbenzene	<7.8		16	7.8	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Isopropyl ether	<9.1		120	9.1	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Isopropylbenzene	<16		120	16	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Methyl tert-butyl ether	<27		120	27	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Methylene Chloride	<42		310	42	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Naphthalene	<31		120	31	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
n-Butylbenzene	<8.0		62	8.0	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
sec-Butylbenzene	<9.6		62	9.6	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Styrene	<6.1		62	6.1	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
tert-Butylbenzene	<8.4		62	8.4	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Tetrachloroethene	<10		62	10	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Toluene	<7.1		16	7.1	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
trans-1,2-Dichloroethene	<16		62	16	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
trans-1,3-Dichloropropene	<13		62	13	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Trichloroethene	<12		31	12	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Trichlorofluoromethane	<26		120	26	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Vinyl chloride	<6.5		16	6.5	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50
Xylenes, Total	<4.2		31	4.2	ug/Kg	☼	06/21/12 12:40	07/03/12 05:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 131	06/21/12 12:40	07/03/12 05:44	50
4-Bromofluorobenzene (Surr)	96		79 - 120	06/21/12 12:40	07/03/12 05:44	50
Dibromofluoromethane	97		74 - 123	06/21/12 12:40	07/03/12 05:44	50
Toluene-d8 (Surr)	97		80 - 120	06/21/12 12:40	07/03/12 05:44	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<20		40	20	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
2-Methylnaphthalene	<53		200	53	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Acenaphthene	<12		40	12	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Acenaphthylene	<9.3		40	9.3	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Anthracene	<9.5		40	9.5	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Benzo[a]anthracene	<8.5		40	8.5	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Benzo[a]pyrene	<7.4		40	7.4	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B83 (2-4)

Lab Sample ID: 500-47663-8

Date Collected: 06/21/12 12:40

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<7.9		40	7.9	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Benzo[g,h,i]perylene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Benzo[k]fluoranthene	<9.7		40	9.7	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Chrysene	<9.1		40	9.1	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Dibenz[a,h]anthracene	<11		40	11	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Fluoranthene	<17		40	17	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Fluorene	<9.2		40	9.2	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Indeno[1,2,3-cd]pyrene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Naphthalene	<7.8		40	7.8	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Phenanthrene	<17		40	17	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	1
Pyrene	<15		40	15	ug/Kg	☼	07/05/12 08:07	07/08/12 00:17	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	47		30 - 119				07/05/12 08:07	07/08/12 00:17	1
Nitrobenzene-d5	44		30 - 115				07/05/12 08:07	07/08/12 00:17	1
Terphenyl-d14	59		36 - 134				07/05/12 08:07	07/08/12 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.3		21	7.3	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1221	<9.1		21	9.1	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1232	<9.0		21	9.0	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1242	<6.8		21	6.8	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1248	<8.1		21	8.1	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1254	<4.5		21	4.5	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	1
PCB-1260	<10		21	10	ug/Kg	☼	07/04/12 17:50	07/05/12 21:50	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	71		50 - 116				07/04/12 17:50	07/05/12 21:50	1
DCB Decachlorobiphenyl	87		48 - 142				07/04/12 17:50	07/05/12 21:50	1

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>7.9</b>		1.2	0.26	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
<b>Barium</b>	<b>120</b>		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
Cadmium	<0.059		0.24	0.059	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
<b>Chromium</b>	<b>17</b>		1.2	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
<b>Lead</b>	<b>12</b>		0.60	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
Selenium	<0.34		1.2	0.34	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1
Silver	<0.072		0.60	0.072	mg/Kg	☼	07/02/12 16:25	07/08/12 18:48	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.4		18	5.4	ug/Kg	☼	07/09/12 09:00	07/09/12 11:58	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.20		0.61	0.20	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B2 (0-2)**

**Lab Sample ID: 500-47663-9**

**Date Collected: 06/21/12 10:10**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**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	<20		120	20	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1,1-Trichloroethane	<12		58	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1,2,2-Tetrachloroethane	<13		58	13	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1,2-Trichloroethane	<16		58	16	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1-Dichloroethane	<11		58	11	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1-Dichloroethene	<18		58	18	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,1-Dichloropropene	<20		58	20	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2,3-Trichlorobenzene	<20	*	120	20	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2,3-Trichloropropane	<33		120	33	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2,4-Trichlorobenzene	<22	*	120	22	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2,4-Trimethylbenzene	<12		120	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2-Dibromo-3-Chloropropane	<50		120	50	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2-Dibromoethane	<18		120	18	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2-Dichloroethane	<16		58	16	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,2-Dichloropropane	<11		58	11	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,3-Dichloropropane	<7.7		58	7.7	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
2,2-Dichloropropane	<18		58	18	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
2-Chlorotoluene	<12		58	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
4-Chlorotoluene	<11		58	11	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Benzene	<4.3		14	4.3	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Bromobenzene	<24		120	24	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Bromochloromethane	<22		120	22	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Bromodichloromethane	<19		120	19	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Bromoform	<25		120	25	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Bromomethane	<39		120	39	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Carbon tetrachloride	<15		58	15	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Chlorobenzene	<8.2		58	8.2	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Chloroethane	<25		120	25	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Chloroform	<12		58	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Chloromethane	<27		120	27	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
cis-1,2-Dichloroethene	<7.1		58	7.1	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
cis-1,3-Dichloropropene	<10		58	10	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Dibromochloromethane	<20		120	20	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Dibromomethane	<28		120	28	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Dichlorodifluoromethane	<30		120	30	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Ethylbenzene</b>	<b>20</b>		14	7.3	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Hexachlorobutadiene	<20		120	20	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Isopropyl ether	<8.5		120	8.5	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Isopropylbenzene	<14		120	14	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Methyl tert-butyl ether	<25		120	25	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Methylene Chloride	<39		290	39	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Naphthalene</b>	<b>120</b>		120	28	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
n-Butylbenzene	<7.4		58	7.4	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
N-Propylbenzene	<10		120	10	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
sec-Butylbenzene	<8.9		58	8.9	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Styrene	<5.7		58	5.7	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50



# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B2 (0-2)**

**Lab Sample ID: 500-47663-9**

**Date Collected: 06/21/12 10:10**

**Matrix: Solid**

**Date Received: 06/26/12 10:30**

**Percent Solids: 85.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<7.8		58	7.8	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Tetrachloroethene</b>	<b>2200</b>		58	9.6	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Toluene</b>	<b>24</b>		14	6.6	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
trans-1,2-Dichloroethene	<14		58	14	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
trans-1,3-Dichloropropene	<12		58	12	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Trichloroethene</b>	<b>69</b>		29	11	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Trichlorofluoromethane	<24		120	24	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
Vinyl chloride	<6.0		14	6.0	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50
<b>Xylenes, Total</b>	<b>150</b>		29	3.9	ug/Kg	☼	06/21/12 10:10	07/03/12 06:09	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 131	06/21/12 10:10	07/03/12 06:09	50
4-Bromofluorobenzene (Surr)	98		79 - 120	06/21/12 10:10	07/03/12 06:09	50
Dibromofluoromethane	98		74 - 123	06/21/12 10:10	07/03/12 06:09	50
Toluene-d8 (Surr)	98		80 - 120	06/21/12 10:10	07/03/12 06:09	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1-Methylnaphthalene</b>	<b>110</b>	J	190	96	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
2-Methylnaphthalene	<250		970	250	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Acenaphthene</b>	<b>58</b>	J	190	58	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Acenaphthylene</b>	<b>83</b>	J	190	44	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Anthracene</b>	<b>260</b>		190	45	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Benzo[a]anthracene</b>	<b>950</b>		190	40	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Benzo[a]pyrene</b>	<b>930</b>		190	35	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Benzo[b]fluoranthene</b>	<b>1600</b>		190	37	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Benzo[g,h,i]perylene</b>	<b>660</b>		190	65	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Benzo[k]fluoranthene</b>	<b>1700</b>		190	46	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Chrysene</b>	<b>1100</b>		190	43	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Dibenz(a,h)anthracene</b>	<b>200</b>		190	54	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Fluoranthene</b>	<b>1900</b>		190	79	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Fluorene</b>	<b>76</b>	J	190	44	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>530</b>		190	65	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Naphthalene</b>	<b>72</b>	J	190	37	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Phenanthrene</b>	<b>1100</b>		190	81	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5
<b>Pyrene</b>	<b>1600</b>		190	70	ug/Kg	☼	07/05/12 08:07	07/08/12 00:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		30 - 119	07/05/12 08:07	07/08/12 00:36	5
Nitrobenzene-d5	57		30 - 115	07/05/12 08:07	07/08/12 00:36	5
Terphenyl-d14	77		36 - 134	07/05/12 08:07	07/08/12 00:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6700		19000	6700	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
PCB-1221	<8400		19000	8400	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
PCB-1232	<8300		19000	8300	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
PCB-1242	<6200		19000	6200	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
<b>PCB-1248</b>	<b>45000</b>		19000	7500	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
PCB-1254	<4100		19000	4100	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000
PCB-1260	<9300		19000	9300	ug/Kg	☼	07/04/12 17:50	07/06/12 10:53	1000

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B2 (0-2)

Date Collected: 06/21/12 10:10

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-9

Matrix: Solid

Percent Solids: 85.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116	07/04/12 17:50	07/06/12 10:53	1000
DCB Decachlorobiphenyl	0	D	48 - 142	07/04/12 17:50	07/06/12 10:53	1000

### Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.2	0.25	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Barium	110		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Cadmium	2.5		0.23	0.057	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Chromium	68		1.2	0.19	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Lead	280		0.58	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Selenium	0.51	J	1.2	0.33	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1
Silver	0.48	J	0.58	0.069	mg/Kg	☼	07/02/12 16:25	07/08/12 18:54	1

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	210		19	5.8	ug/Kg	☼	07/09/12 09:00	07/09/12 11:59	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.55	J B ^	0.58	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B84 (2-4)

Date Collected: 06/21/12 10:30

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-10

Matrix: Solid

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	<21		120	21	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1,1-Trichloroethane	<12		60	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1,2,2-Tetrachloroethane	<14		60	14	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1,2-Trichloroethane	<17		60	17	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1-Dichloroethane	<11		60	11	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1-Dichloroethene	<18		60	18	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,1-Dichloropropene	<21		60	21	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2,3-Trichlorobenzene	<21	*	120	21	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2,3-Trichloropropane	<35		120	35	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2,4-Trichlorobenzene	<23	*	120	23	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>1,2,4-Trimethylbenzene</b>	<b>94</b>	<b>J</b>	120	13	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2-Dibromo-3-Chloropropane	<52		120	52	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2-Dichloroethane	<17		60	17	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,2-Dichloropropane	<12		60	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>1,3,5-Trimethylbenzene</b>	<b>63</b>	<b>J</b>	120	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,3-Dichlorobenzene	<15		120	15	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,3-Dichloropropane	<8.1		60	8.1	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
1,4-Dichlorobenzene	<10		120	10	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
2,2-Dichloropropane	<19		60	19	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
2-Chlorotoluene	<12		60	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
4-Chlorotoluene	<12		60	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Benzene	<4.5		15	4.5	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Bromobenzene	<26		120	26	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B84 (2-4)**

**Lab Sample ID: 500-47663-10**

Date Collected: 06/21/12 10:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<23		120	23	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Bromoform	<27		120	27	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Bromomethane	<41		120	41	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Carbon tetrachloride	<15		60	15	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Chlorobenzene	<8.6		60	8.6	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Chloroethane	<26		120	26	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Chloroform	<12		60	12	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Chloromethane	<28		120	28	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
cis-1,2-Dichloroethene	<7.4		60	7.4	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
cis-1,3-Dichloropropene	<11		60	11	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Dibromomethane	<29		120	29	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>Ethylbenzene</b>	<b>37</b>		15	7.6	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Isopropyl ether	<8.8		120	8.8	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Methylene Chloride	<41		300	41	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>Naphthalene</b>	<b>98 J</b>		120	30	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
n-Butylbenzene	<7.8		60	7.8	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
sec-Butylbenzene	<9.3		60	9.3	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Styrene	<5.9		60	5.9	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
tert-Butylbenzene	<8.2		60	8.2	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>Toluene</b>	<b>27</b>		15	6.9	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
trans-1,2-Dichloroethene	<15		60	15	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
trans-1,3-Dichloropropene	<13		60	13	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>Trichloroethene</b>	<b>600</b>		30	11	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
Vinyl chloride	<6.3		15	6.3	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50
<b>Xylenes, Total</b>	<b>94</b>		30	4.1	ug/Kg	☼	06/21/12 10:30	07/03/12 08:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 131	06/21/12 10:30	07/03/12 08:10	50
4-Bromofluorobenzene (Surr)	95		79 - 120	06/21/12 10:30	07/03/12 08:10	50
Dibromofluoromethane	98		74 - 123	06/21/12 10:30	07/03/12 08:10	50
Toluene-d8 (Surr)	99		80 - 120	06/21/12 10:30	07/03/12 08:10	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>27000</b>		600	100	ug/Kg	☼	06/21/12 10:30	07/03/12 08:34	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 131	06/21/12 10:30	07/03/12 08:34	500
4-Bromofluorobenzene (Surr)	94		79 - 120	06/21/12 10:30	07/03/12 08:34	500
Dibromofluoromethane	100		74 - 123	06/21/12 10:30	07/03/12 08:34	500
Toluene-d8 (Surr)	97		80 - 120	06/21/12 10:30	07/03/12 08:34	500

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B84 (2-4)**

**Lab Sample ID: 500-47663-10**

Date Collected: 06/21/12 10:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	300		190	95	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
2-Methylnaphthalene	290	J	960	250	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Acenaphthene	<57		190	57	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Acenaphthylene	<44		190	44	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Anthracene	70	J	190	45	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Benzo[a]anthracene	250		190	40	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Benzo[a]pyrene	280		190	35	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Benzo[b]fluoranthene	380		190	37	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Benzo[g,h,i]perylene	200		190	65	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Benzo[k]fluoranthene	130	J	190	46	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Chrysene	310		190	43	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Dibenz(a,h)anthracene	54	J	190	54	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Fluoranthene	440		190	78	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Fluorene	<44		190	44	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Indeno[1,2,3-cd]pyrene	160	J	190	65	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Naphthalene	110	J	190	37	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Phenanthrene	590		190	80	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
Pyrene	440		190	69	ug/Kg	☼	07/05/12 08:07	07/08/12 00:56	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl	78		30 - 119				07/05/12 08:07	07/08/12 00:56	5
Nitrobenzene-d5	53		30 - 115				07/05/12 08:07	07/08/12 00:56	5
Terphenyl-d14	80		36 - 134				07/05/12 08:07	07/08/12 00:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<68		190	68	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
PCB-1221	<85		190	85	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
PCB-1232	<84		190	84	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
PCB-1242	<63		190	63	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
<b>PCB-1248</b>	<b>1700</b>		190	76	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
PCB-1254	<42		190	42	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
PCB-1260	<95		190	95	ug/Kg	☼	07/04/12 17:50	07/06/12 11:07	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	128	X	50 - 116				07/04/12 17:50	07/06/12 11:07	10
DCB Decachlorobiphenyl	129		48 - 142				07/04/12 17:50	07/06/12 11:07	10

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.1	0.23	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Barium	57		1.1	0.13	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Cadmium	0.65		0.21	0.053	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Chromium	11		1.1	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Lead	69		0.53	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Selenium	0.51	J	1.1	0.30	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1
Silver	0.084	J	0.53	0.064	mg/Kg	☼	07/02/12 16:25	07/08/12 19:01	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	140		19	6.0	ug/Kg	☼	07/09/12 09:00	07/09/12 12:01	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B84 (2-4)

Date Collected: 06/21/12 10:30

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-10

Matrix: Solid

Percent Solids: 83.4

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.31	J B	0.56	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

## Client Sample ID: B50 (9.5-11.5)

Date Collected: 06/21/12 13:30

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-11

Matrix: Solid

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<21		120	21	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1,1-Trichloroethane	<12		61	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1,2,2-Tetrachloroethane	<14		61	14	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1,2-Trichloroethane	<17		61	17	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1-Dichloroethane	<11		61	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1-Dichloroethene	<19		61	19	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,1-Dichloropropene	<21		61	21	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2,3-Trichlorobenzene	<21 *		120	21	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2,3-Trichloropropane	<35		120	35	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2,4-Trichlorobenzene	<23 *		120	23	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2,4-Trimethylbenzene	<13		120	13	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2-Dibromo-3-Chloropropane	<53		120	53	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2-Dibromoethane	<19		120	19	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2-Dichlorobenzene	<12		120	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2-Dichloroethane	<17		61	17	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,2-Dichloropropane	<12		61	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,3,5-Trimethylbenzene	<12		120	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,3-Dichlorobenzene	<16		120	16	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,3-Dichloropropane	<8.1		61	8.1	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
1,4-Dichlorobenzene	<11		120	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
2,2-Dichloropropane	<19		61	19	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
2-Chlorotoluene	<13		61	13	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
4-Chlorotoluene	<12		61	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Benzene	<4.5		15	4.5	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Bromobenzene	<26		120	26	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Bromochloromethane	<23		120	23	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Bromodichloromethane	<20		120	20	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Bromoform	<27		120	27	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Bromomethane	<41		120	41	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Carbon tetrachloride	<16		61	16	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Chlorobenzene	<8.7		61	8.7	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Chloroethane	<26		120	26	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Chloroform	<12		61	12	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Chloromethane	<28		120	28	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
cis-1,2-Dichloroethene	<7.4		61	7.4	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
cis-1,3-Dichloropropene	<11		61	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Dibromochloromethane	<21		120	21	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Dibromomethane	<29		120	29	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Dichlorodifluoromethane	<31		120	31	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Ethylbenzene	<7.6		15	7.6	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Hexachlorobutadiene	<21		120	21	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Isopropyl ether	<8.9		120	8.9	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Isopropylbenzene	<15		120	15	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50

# Client Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B50 (9.5-11.5)**

**Lab Sample ID: 500-47663-11**

Date Collected: 06/21/12 13:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<26		120	26	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Methylene Chloride	<41		300	41	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Naphthalene	<30		120	30	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
n-Butylbenzene	<7.8		61	7.8	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
N-Propylbenzene	<11		120	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
p-Isopropyltoluene	<11		120	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
sec-Butylbenzene	<9.3		61	9.3	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Styrene	<6.0		61	6.0	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
tert-Butylbenzene	<8.2		61	8.2	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Tetrachloroethene	<10		61	10	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Toluene	<7.0		15	7.0	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
trans-1,2-Dichloroethene	<15		61	15	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
trans-1,3-Dichloropropene	<13		61	13	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Trichloroethene	<11		30	11	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Trichlorofluoromethane	<25		120	25	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Vinyl chloride	<6.3		15	6.3	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50
Xylenes, Total	<4.1		30	4.1	ug/Kg	☼	06/21/12 13:30	07/03/12 08:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 131	06/21/12 13:30	07/03/12 08:59	50
4-Bromofluorobenzene (Surr)	95		79 - 120	06/21/12 13:30	07/03/12 08:59	50
Dibromofluoromethane	97		74 - 123	06/21/12 13:30	07/03/12 08:59	50
Toluene-d8 (Surr)	98		80 - 120	06/21/12 13:30	07/03/12 08:59	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<20		39	20	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
2-Methylnaphthalene	<51		200	51	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Acenaphthene	<12		39	12	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Acenaphthylene	<9.1		39	9.1	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Anthracene	<9.3		39	9.3	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Benzo[a]anthracene	<8.3		39	8.3	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Benzo[a]pyrene	<7.2		39	7.2	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Benzo[b]fluoranthene	<7.7		39	7.7	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Benzo[g,h,i]perylene	<13		39	13	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Benzo[k]fluoranthene	<9.5		39	9.5	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Chrysene	<9.0		39	9.0	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Dibenz(a,h)anthracene	<11		39	11	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Fluoranthene	<16		39	16	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Fluorene	<9.0		39	9.0	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Indeno[1,2,3-cd]pyrene	<13		39	13	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Naphthalene	<7.6		39	7.6	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Phenanthrene	<17		39	17	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1
Pyrene	<14		39	14	ug/Kg	☼	07/05/12 08:07	07/08/12 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	35		30 - 119	07/05/12 08:07	07/08/12 01:16	1
Nitrobenzene-d5	31		30 - 115	07/05/12 08:07	07/08/12 01:16	1
Terphenyl-d14	66		36 - 134	07/05/12 08:07	07/08/12 01:16	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B50 (9.5-11.5)**

**Lab Sample ID: 500-47663-11**

Date Collected: 06/21/12 13:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 81.9

**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	☼	07/04/12 17:50	07/05/12 22:33	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1
<b>PCB-1254</b>	<b>15</b>	<b>J B</b>	19	4.2	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	07/04/12 17:50	07/05/12 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		50 - 116	07/04/12 17:50	07/05/12 22:33	1
DCB Decachlorobiphenyl	90		48 - 142	07/04/12 17:50	07/05/12 22:33	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>2.2</b>		1.1	0.25	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
<b>Barium</b>	<b>79</b>		1.1	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
<b>Cadmium</b>	<b>0.081</b>	<b>J</b>	0.23	0.056	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
<b>Chromium</b>	<b>9.8</b>		1.1	0.19	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
<b>Lead</b>	<b>5.3</b>		0.57	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
Selenium	<0.33		1.1	0.33	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1
<b>Silver</b>	<b>0.087</b>	<b>J</b>	0.57	0.068	mg/Kg	☼	07/02/12 16:25	07/08/12 19:07	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<6.1		20	6.1	ug/Kg	☼	07/09/12 09:00	07/09/12 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.19		0.58	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

# Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### 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
B	Compound was found in the blank and sample.
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.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

### Metals

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.

### General Chemistry

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## GC/MS VOA

### Prep Batch: 154235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	5035	
500-47663-2	B34 (2-4)	Total/NA	Solid	5035	
500-47663-3	B23 (0-1)	Total/NA	Solid	5035	
500-47663-4	B42 (0-1)	Total/NA	Solid	5035	
500-47663-5	B42 (2-4)	Total/NA	Solid	5035	
500-47663-6	B50 (0-1)	Total/NA	Solid	5035	
500-47663-7	B83 (0-1)	Total/NA	Solid	5035	
500-47663-8	B83 (2-4)	Total/NA	Solid	5035	
500-47663-9	B2 (0-2)	Total/NA	Solid	5035	
500-47663-10	B84 (2-4)	Total/NA	Solid	5035	
500-47663-10 - DL	B84 (2-4)	Total/NA	Solid	5035	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	5035	
LB3 500-154235/12-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-154235/13-A	Lab Control Sample	Total/NA	Solid	5035	

### Analysis Batch: 154851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	8260B	154235
500-47663-2	B34 (2-4)	Total/NA	Solid	8260B	154235
500-47663-3	B23 (0-1)	Total/NA	Solid	8260B	154235
500-47663-4	B42 (0-1)	Total/NA	Solid	8260B	154235
500-47663-5	B42 (2-4)	Total/NA	Solid	8260B	154235
500-47663-6	B50 (0-1)	Total/NA	Solid	8260B	154235
500-47663-7	B83 (0-1)	Total/NA	Solid	8260B	154235
500-47663-8	B83 (2-4)	Total/NA	Solid	8260B	154235
500-47663-9	B2 (0-2)	Total/NA	Solid	8260B	154235
500-47663-10	B84 (2-4)	Total/NA	Solid	8260B	154235
500-47663-10 - DL	B84 (2-4)	Total/NA	Solid	8260B	154235
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	8260B	154235
LB3 500-154235/12-A LB3	Method Blank	Total/NA	Solid	8260B	154235
LCS 500-154235/13-A	Lab Control Sample	Total/NA	Solid	8260B	154235
LCS 500-154851/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-154851/6	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 155114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	3541	
500-47663-2	B34 (2-4)	Total/NA	Solid	3541	
500-47663-3	B23 (0-1)	Total/NA	Solid	3541	
500-47663-4	B42 (0-1)	Total/NA	Solid	3541	
500-47663-5	B42 (2-4)	Total/NA	Solid	3541	
500-47663-6	B50 (0-1)	Total/NA	Solid	3541	
500-47663-7	B83 (0-1)	Total/NA	Solid	3541	
500-47663-8	B83 (2-4)	Total/NA	Solid	3541	
500-47663-9	B2 (0-2)	Total/NA	Solid	3541	
500-47663-10	B84 (2-4)	Total/NA	Solid	3541	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	3541	
LCS 500-155114/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-155114/1-A	Method Blank	Total/NA	Solid	3541	

# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 155451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-155114/1-A	Method Blank	Total/NA	Solid	8270C	155114

### Analysis Batch: 155455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	8270C	155114
500-47663-2	B34 (2-4)	Total/NA	Solid	8270C	155114
500-47663-3	B23 (0-1)	Total/NA	Solid	8270C	155114
500-47663-4	B42 (0-1)	Total/NA	Solid	8270C	155114
500-47663-5	B42 (2-4)	Total/NA	Solid	8270C	155114
500-47663-7	B83 (0-1)	Total/NA	Solid	8270C	155114
500-47663-8	B83 (2-4)	Total/NA	Solid	8270C	155114
500-47663-9	B2 (0-2)	Total/NA	Solid	8270C	155114
500-47663-10	B84 (2-4)	Total/NA	Solid	8270C	155114
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	8270C	155114

### Analysis Batch: 155493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-155114/2-A	Lab Control Sample	Total/NA	Solid	8270C	155114

### Analysis Batch: 155582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-6	B50 (0-1)	Total/NA	Solid	8270C	155114

## GC Semi VOA

### Prep Batch: 155091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	3541	
500-47663-2	B34 (2-4)	Total/NA	Solid	3541	
500-47663-3	B23 (0-1)	Total/NA	Solid	3541	
500-47663-4	B42 (0-1)	Total/NA	Solid	3541	
500-47663-5	B42 (2-4)	Total/NA	Solid	3541	
500-47663-6	B50 (0-1)	Total/NA	Solid	3541	
500-47663-7	B83 (0-1)	Total/NA	Solid	3541	
500-47663-8	B83 (2-4)	Total/NA	Solid	3541	
500-47663-9	B2 (0-2)	Total/NA	Solid	3541	
500-47663-10	B84 (2-4)	Total/NA	Solid	3541	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	3541	
LCS 500-155091/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-155091/1-A	Method Blank	Total/NA	Solid	3541	

### Analysis Batch: 155204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	8082	155091
500-47663-2	B34 (2-4)	Total/NA	Solid	8082	155091
500-47663-3	B23 (0-1)	Total/NA	Solid	8082	155091
500-47663-4	B42 (0-1)	Total/NA	Solid	8082	155091
500-47663-5	B42 (2-4)	Total/NA	Solid	8082	155091
500-47663-6	B50 (0-1)	Total/NA	Solid	8082	155091
500-47663-7	B83 (0-1)	Total/NA	Solid	8082	155091
500-47663-8	B83 (2-4)	Total/NA	Solid	8082	155091
500-47663-9	B2 (0-2)	Total/NA	Solid	8082	155091

# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## GC Semi VOA (Continued)

### Analysis Batch: 155204 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-10	B84 (2-4)	Total/NA	Solid	8082	155091
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	8082	155091
LCS 500-155091/3-A	Lab Control Sample	Total/NA	Solid	8082	155091
MB 500-155091/1-A	Method Blank	Total/NA	Solid	8082	155091

## Metals

### Prep Batch: 154879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	3050B	
500-47663-2	B34 (2-4)	Total/NA	Solid	3050B	
500-47663-3	B23 (0-1)	Total/NA	Solid	3050B	
500-47663-4	B42 (0-1)	Total/NA	Solid	3050B	
500-47663-5	B42 (2-4)	Total/NA	Solid	3050B	
500-47663-6	B50 (0-1)	Total/NA	Solid	3050B	
500-47663-7	B83 (0-1)	Total/NA	Solid	3050B	
500-47663-8	B83 (2-4)	Total/NA	Solid	3050B	
500-47663-9	B2 (0-2)	Total/NA	Solid	3050B	
500-47663-10	B84 (2-4)	Total/NA	Solid	3050B	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	3050B	
LCS 500-154879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-154879/1-A	Method Blank	Total/NA	Solid	3050B	

### Prep Batch: 155507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	7471A	
500-47663-2	B34 (2-4)	Total/NA	Solid	7471A	
500-47663-3	B23 (0-1)	Total/NA	Solid	7471A	
500-47663-4	B42 (0-1)	Total/NA	Solid	7471A	
500-47663-5	B42 (2-4)	Total/NA	Solid	7471A	
500-47663-6	B50 (0-1)	Total/NA	Solid	7471A	
500-47663-7	B83 (0-1)	Total/NA	Solid	7471A	
500-47663-7 DU	B83 (0-1)	Total/NA	Solid	7471A	
500-47663-7 MS	B83 (0-1)	Total/NA	Solid	7471A	
500-47663-7 MSD	B83 (0-1)	Total/NA	Solid	7471A	
500-47663-8	B83 (2-4)	Total/NA	Solid	7471A	
500-47663-9	B2 (0-2)	Total/NA	Solid	7471A	
500-47663-10	B84 (2-4)	Total/NA	Solid	7471A	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	7471A	
LCS 500-155507/8-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-155507/7-A	Method Blank	Total/NA	Solid	7471A	

### Analysis Batch: 155516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	6010B	154879
500-47663-2	B34 (2-4)	Total/NA	Solid	6010B	154879
500-47663-3	B23 (0-1)	Total/NA	Solid	6010B	154879
500-47663-4	B42 (0-1)	Total/NA	Solid	6010B	154879
500-47663-5	B42 (2-4)	Total/NA	Solid	6010B	154879
500-47663-6	B50 (0-1)	Total/NA	Solid	6010B	154879
500-47663-7	B83 (0-1)	Total/NA	Solid	6010B	154879
500-47663-8	B83 (2-4)	Total/NA	Solid	6010B	154879

# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Metals (Continued)

### Analysis Batch: 155516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-9	B2 (0-2)	Total/NA	Solid	6010B	154879
500-47663-10	B84 (2-4)	Total/NA	Solid	6010B	154879
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	6010B	154879
LCS 500-154879/2-A	Lab Control Sample	Total/NA	Solid	6010B	154879
MB 500-154879/1-A	Method Blank	Total/NA	Solid	6010B	154879

### Analysis Batch: 155597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	7471A	155507
500-47663-2	B34 (2-4)	Total/NA	Solid	7471A	155507
500-47663-3	B23 (0-1)	Total/NA	Solid	7471A	155507
500-47663-4	B42 (0-1)	Total/NA	Solid	7471A	155507
500-47663-5	B42 (2-4)	Total/NA	Solid	7471A	155507
500-47663-6	B50 (0-1)	Total/NA	Solid	7471A	155507
500-47663-7	B83 (0-1)	Total/NA	Solid	7471A	155507
500-47663-7 DU	B83 (0-1)	Total/NA	Solid	7471A	155507
500-47663-7 MS	B83 (0-1)	Total/NA	Solid	7471A	155507
500-47663-7 MSD	B83 (0-1)	Total/NA	Solid	7471A	155507
500-47663-8	B83 (2-4)	Total/NA	Solid	7471A	155507
500-47663-9	B2 (0-2)	Total/NA	Solid	7471A	155507
500-47663-10	B84 (2-4)	Total/NA	Solid	7471A	155507
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	7471A	155507
LCS 500-155507/8-A	Lab Control Sample	Total/NA	Solid	7471A	155507
MB 500-155507/7-A	Method Blank	Total/NA	Solid	7471A	155507

## General Chemistry

### Analysis Batch: 154191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	Moisture	
500-47663-2	B34 (2-4)	Total/NA	Solid	Moisture	
500-47663-3	B23 (0-1)	Total/NA	Solid	Moisture	
500-47663-4	B42 (0-1)	Total/NA	Solid	Moisture	
500-47663-5	B42 (2-4)	Total/NA	Solid	Moisture	
500-47663-6	B50 (0-1)	Total/NA	Solid	Moisture	
500-47663-7	B83 (0-1)	Total/NA	Solid	Moisture	
500-47663-8	B83 (2-4)	Total/NA	Solid	Moisture	
500-47663-9	B2 (0-2)	Total/NA	Solid	Moisture	
500-47663-10	B84 (2-4)	Total/NA	Solid	Moisture	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	Moisture	

### Prep Batch: 154722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	9010B	
500-47663-2	B34 (2-4)	Total/NA	Solid	9010B	
500-47663-3	B23 (0-1)	Total/NA	Solid	9010B	
500-47663-4	B42 (0-1)	Total/NA	Solid	9010B	
500-47663-5	B42 (2-4)	Total/NA	Solid	9010B	
500-47663-6	B50 (0-1)	Total/NA	Solid	9010B	
500-47663-7	B83 (0-1)	Total/NA	Solid	9010B	
500-47663-8	B83 (2-4)	Total/NA	Solid	9010B	
500-47663-9	B2 (0-2)	Total/NA	Solid	9010B	

# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## General Chemistry (Continued)

### Prep Batch: 154722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-10	B84 (2-4)	Total/NA	Solid	9010B	
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	9010B	
LCS 500-154722/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-154722/1-A	Method Blank	Total/NA	Solid	9010B	

### Analysis Batch: 154739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47663-1	B34 (0-1)	Total/NA	Solid	9014	154722
500-47663-2	B34 (2-4)	Total/NA	Solid	9014	154722
500-47663-3	B23 (0-1)	Total/NA	Solid	9014	154722
500-47663-4	B42 (0-1)	Total/NA	Solid	9014	154722
500-47663-5	B42 (2-4)	Total/NA	Solid	9014	154722
500-47663-6	B50 (0-1)	Total/NA	Solid	9014	154722
500-47663-7	B83 (0-1)	Total/NA	Solid	9014	154722
500-47663-8	B83 (2-4)	Total/NA	Solid	9014	154722
500-47663-9	B2 (0-2)	Total/NA	Solid	9014	154722
500-47663-10	B84 (2-4)	Total/NA	Solid	9014	154722
500-47663-11	B50 (9.5-11.5)	Total/NA	Solid	9014	154722
LCS 500-154722/2-A	Lab Control Sample	Total/NA	Solid	9014	154722
MB 500-154722/1-A	Method Blank	Total/NA	Solid	9014	154722



# Surrogate Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-47663-1	B34 (0-1)	100	96	99	97
500-47663-2	B34 (2-4)	99	97	102	98
500-47663-3	B23 (0-1)	104	101	102	99
500-47663-4	B42 (0-1)	99	95	99	98
500-47663-5	B42 (2-4)	97	95	98	98
500-47663-6	B50 (0-1)	101	99	102	99
500-47663-7	B83 (0-1)	99	98	98	99
500-47663-8	B83 (2-4)	98	96	97	97
500-47663-9	B2 (0-2)	98	98	98	98
500-47663-10	B84 (2-4)	97	95	98	99
500-47663-10 - DL	B84 (2-4)	99	94	100	97
500-47663-11	B50 (9.5-11.5)	99	95	97	98
LB3 500-154235/12-A LB3	Method Blank	98	98	97	99
LCS 500-154235/13-A	Lab Control Sample	99	96	105	102
LCS 500-154851/5	Lab Control Sample	101	100	102	100
MB 500-154851/6	Method Blank	100	95	95	100

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (30-119)	NBZ (30-115)	TPH (36-134)
500-47663-1	B34 (0-1)	80	67	106
500-47663-2	B34 (2-4)	52	40	82
500-47663-3	B23 (0-1)	65	52	87
500-47663-4	B42 (0-1)	90	69	100
500-47663-5	B42 (2-4)	50	50	72
500-47663-6	B50 (0-1)	78	62	93
500-47663-7	B83 (0-1)	94	72	105
500-47663-8	B83 (2-4)	47	44	59
500-47663-9	B2 (0-2)	72	57	77
500-47663-10	B84 (2-4)	78	53	80
500-47663-11	B50 (9.5-11.5)	35	31	66
LCS 500-155114/2-A	Lab Control Sample	94	105	116
MB 500-155114/1-A	Method Blank	106	104	110

### Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPH = Terphenyl-d14

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (50-116)	DCB2 (48-142)
500-47663-1	B34 (0-1)	86	93
500-47663-2	B34 (2-4)	73	104
500-47663-3	B23 (0-1)	108	104
500-47663-4	B42 (0-1)	105	108
500-47663-5	B42 (2-4)	82	103
500-47663-6	B50 (0-1)	115	109
500-47663-7	B83 (0-1)	98	94
500-47663-8	B83 (2-4)	71	87
500-47663-9	B2 (0-2)	0 D	0 D
500-47663-10	B84 (2-4)	128 X	129
500-47663-11	B50 (9.5-11.5)	71	90
LCS 500-155091/3-A	Lab Control Sample	72	115
MB 500-155091/1-A	Method Blank	71	111

#### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: LB3 500-154235/12-A LB3**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 154235**

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1-Dichloroethene	<15		50	15	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,1-Dichloropropene	<17		50	17	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2-Dibromoethane	<16		100	16	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2-Dichloroethane	<14		50	14	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
2,2-Dichloropropane	<16		50	16	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
2-Chlorotoluene	<10		50	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Benzene	<3.7		13	3.7	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Bromobenzene	<21		100	21	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Bromochloromethane	<19		100	19	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Bromodichloromethane	<17		100	17	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Bromoform	<22		100	22	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Bromomethane	<34		100	34	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Carbon tetrachloride	<13		50	13	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Chloroethane	<22		100	22	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Chloroform	<10		50	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Chloromethane	<23		100	23	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Dibromochloromethane	<17		100	17	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Dibromomethane	<24		100	24	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Hexachlorobutadiene	<17		100	17	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Isopropylbenzene	<13		100	13	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Methylene Chloride	<34		250	34	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Naphthalene	<25		100	25	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		06/26/12 21:00	07/03/12 06:32	50



# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: LB3 500-154235/12-A LB3**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 154235**

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Styrene	<4.9		50	4.9	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Toluene	<5.8		13	5.8	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Trichloroethene	<9.3		25	9.3	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Trichlorofluoromethane	<21		100	21	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		06/26/12 21:00	07/03/12 06:32	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		06/26/12 21:00	07/03/12 06:32	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		75 - 131	06/26/12 21:00	07/03/12 06:32	50
4-Bromofluorobenzene (Surr)	98		79 - 120	06/26/12 21:00	07/03/12 06:32	50
Dibromofluoromethane	97		74 - 123	06/26/12 21:00	07/03/12 06:32	50
Toluene-d8 (Surr)	99		80 - 120	06/26/12 21:00	07/03/12 06:32	50

**Lab Sample ID: LCS 500-154235/13-A**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 154235**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	2500	2520		ug/Kg		101	80 - 120
1,1,1-Trichloroethane	2500	2630		ug/Kg		105	77 - 117
1,1,2,2-Tetrachloroethane	2500	2570		ug/Kg		103	78 - 123
1,1,2-Trichloroethane	2500	2500		ug/Kg		100	78 - 121
1,1-Dichloroethane	2500	2430		ug/Kg		97	66 - 118
1,1-Dichloroethene	2500	2620		ug/Kg		105	58 - 115
1,1-Dichloropropene	2500	2430		ug/Kg		97	71 - 113
1,2,3-Trichlorobenzene	2500	1650	*	ug/Kg		66	74 - 126
1,2,3-Trichloropropane	2500	2370		ug/Kg		95	77 - 119
1,2,4-Trichlorobenzene	2500	1640	*	ug/Kg		65	70 - 118
1,2,4-Trimethylbenzene	2500	2380		ug/Kg		95	80 - 120
1,2-Dibromo-3-Chloropropane	2500	2140		ug/Kg		86	53 - 133
1,2-Dibromoethane	2500	2490		ug/Kg		100	79 - 120
1,2-Dichlorobenzene	2500	2310		ug/Kg		92	80 - 120
1,2-Dichloroethane	2500	2330		ug/Kg		93	76 - 117
1,2-Dichloropropane	2500	2370		ug/Kg		95	77 - 118
1,3,5-Trimethylbenzene	2500	2480		ug/Kg		99	83 - 120
1,3-Dichlorobenzene	2500	2290		ug/Kg		92	80 - 120
1,3-Dichloropropane	2500	2380		ug/Kg		95	79 - 114
1,4-Dichlorobenzene	2500	2270		ug/Kg		91	80 - 120
2,2-Dichloropropane	2500	2200		ug/Kg		88	70 - 117
2-Chlorotoluene	2500	2440		ug/Kg		98	80 - 120
4-Chlorotoluene	2500	2320		ug/Kg		93	80 - 120
Benzene	2500	2330		ug/Kg		93	74 - 115
Bromobenzene	2500	2620		ug/Kg		105	80 - 120
Bromochloromethane	2500	2640		ug/Kg		106	72 - 119

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: LCS 500-154235/13-A**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 154235**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	2500	2400		ug/Kg		96	79 - 117
Bromoform	2500	2200		ug/Kg		88	64 - 127
Bromomethane	2500	2240		ug/Kg		90	47 - 158
Carbon tetrachloride	2500	2490		ug/Kg		100	72 - 124
Chlorobenzene	2500	2450		ug/Kg		98	80 - 120
Chloroethane	2500	2320		ug/Kg		93	54 - 143
Chloroform	2500	2520		ug/Kg		101	76 - 117
Chloromethane	2500	2030		ug/Kg		81	56 - 144
cis-1,2-Dichloroethene	2500	2520		ug/Kg		101	75 - 119
cis-1,3-Dichloropropene	2690	2440		ug/Kg		91	71 - 112
Dibromochloromethane	2500	2300		ug/Kg		92	73 - 120
Dibromomethane	2500	2330		ug/Kg		93	76 - 120
Dichlorodifluoromethane	2500	1590		ug/Kg		64	43 - 139
Ethylbenzene	2500	2420		ug/Kg		97	79 - 115
Hexachlorobutadiene	2500	1830		ug/Kg		73	71 - 128
Isopropylbenzene	2500	2200		ug/Kg		88	68 - 120
Methyl tert-butyl ether	2500	2380		ug/Kg		95	60 - 125
Methylene Chloride	2500	2810		ug/Kg		112	63 - 130
Naphthalene	2500	1940		ug/Kg		78	72 - 127
n-Butylbenzene	2500	2110		ug/Kg		84	78 - 119
N-Propylbenzene	2500	2370		ug/Kg		95	77 - 114
p-Isopropyltoluene	2500	2180		ug/Kg		87	77 - 120
sec-Butylbenzene	2500	2380		ug/Kg		95	79 - 117
Styrene	2500	2340		ug/Kg		94	80 - 120
tert-Butylbenzene	2500	2470		ug/Kg		99	80 - 120
Tetrachloroethene	2500	2430		ug/Kg		97	71 - 120
Toluene	2500	2410		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	2500	2720		ug/Kg		109	74 - 119
trans-1,3-Dichloropropene	2430	2260		ug/Kg		93	66 - 116
Trichloroethene	2500	2380		ug/Kg		95	75 - 120
Trichlorofluoromethane	2500	2290		ug/Kg		92	66 - 126
Vinyl chloride	2500	2250		ug/Kg		90	51 - 149
Xylenes, Total	7500	6860		ug/Kg		91	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		75 - 131
4-Bromofluorobenzene (Surr)	96		79 - 120
Dibromofluoromethane	105		74 - 123
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: MB 500-154851/6**

**Matrix: Solid**

**Analysis Batch: 154851**

**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			07/03/12 01:02	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			07/03/12 01:02	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			07/03/12 01:02	1

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

Lab Sample ID: MB 500-154851/6

Matrix: Solid

Analysis Batch: 154851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			07/03/12 01:02	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			07/03/12 01:02	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			07/03/12 01:02	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			07/03/12 01:02	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			07/03/12 01:02	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			07/03/12 01:02	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			07/03/12 01:02	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			07/03/12 01:02	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			07/03/12 01:02	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			07/03/12 01:02	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			07/03/12 01:02	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			07/03/12 01:02	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
Benzene	<0.074		0.25	0.074	ug/Kg			07/03/12 01:02	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			07/03/12 01:02	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			07/03/12 01:02	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			07/03/12 01:02	1
Bromoform	<0.44		2.0	0.44	ug/Kg			07/03/12 01:02	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			07/03/12 01:02	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			07/03/12 01:02	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			07/03/12 01:02	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			07/03/12 01:02	1
Chloroform	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			07/03/12 01:02	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			07/03/12 01:02	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			07/03/12 01:02	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			07/03/12 01:02	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			07/03/12 01:02	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			07/03/12 01:02	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			07/03/12 01:02	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			07/03/12 01:02	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			07/03/12 01:02	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			07/03/12 01:02	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			07/03/12 01:02	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			07/03/12 01:02	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			07/03/12 01:02	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			07/03/12 01:02	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			07/03/12 01:02	1
Styrene	<0.099		1.0	0.099	ug/Kg			07/03/12 01:02	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			07/03/12 01:02	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			07/03/12 01:02	1
Toluene	<0.12		0.25	0.12	ug/Kg			07/03/12 01:02	1

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: MB 500-154851/6**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			07/03/12 01:02	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			07/03/12 01:02	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			07/03/12 01:02	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			07/03/12 01:02	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			07/03/12 01:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 131		07/03/12 01:02	1
4-Bromofluorobenzene (Surr)	95		79 - 120		07/03/12 01:02	1
Dibromofluoromethane	95		74 - 123		07/03/12 01:02	1
Toluene-d8 (Surr)	100		80 - 120		07/03/12 01:02	1

**Lab Sample ID: LCS 500-154851/5**

**Matrix: Solid**

**Analysis Batch: 154851**

**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	53.8		ug/Kg		108	80 - 120
1,1,1-Trichloroethane	50.0	47.8		ug/Kg		96	77 - 117
1,1,1,2,2-Tetrachloroethane	50.0	56.3		ug/Kg		113	78 - 123
1,1,2-Trichloroethane	50.0	52.8		ug/Kg		106	78 - 121
1,1-Dichloroethane	50.0	44.9		ug/Kg		90	66 - 118
1,1-Dichloroethene	50.0	42.3		ug/Kg		85	58 - 115
1,1-Dichloropropene	50.0	46.2		ug/Kg		92	71 - 113
1,2,3-Trichlorobenzene	50.0	39.6		ug/Kg		79	74 - 126
1,2,3-Trichloropropane	50.0	51.7		ug/Kg		103	77 - 119
1,2,4-Trichlorobenzene	50.0	40.0		ug/Kg		80	70 - 118
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/Kg		95	53 - 133
1,2-Dibromoethane	50.0	51.9		ug/Kg		104	79 - 120
1,2-Dichlorobenzene	50.0	49.7		ug/Kg		99	80 - 120
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	76 - 117
1,2-Dichloropropane	50.0	48.6		ug/Kg		97	77 - 118
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	83 - 120
1,3-Dichlorobenzene	50.0	49.0		ug/Kg		98	80 - 120
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	79 - 114
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	80 - 120
2,2-Dichloropropane	50.0	36.2		ug/Kg		72	70 - 117
2-Chlorotoluene	50.0	49.9		ug/Kg		100	80 - 120
4-Chlorotoluene	50.0	48.3		ug/Kg		97	80 - 120
Benzene	50.0	44.0		ug/Kg		88	74 - 115
Bromobenzene	50.0	54.9		ug/Kg		110	80 - 120
Bromochloromethane	50.0	48.7		ug/Kg		97	72 - 119
Bromodichloromethane	50.0	50.0		ug/Kg		100	79 - 117
Bromoform	50.0	51.0		ug/Kg		102	64 - 127
Bromomethane	50.0	44.8		ug/Kg		90	47 - 158
Carbon tetrachloride	50.0	46.3		ug/Kg		93	72 - 124
Chlorobenzene	50.0	50.6		ug/Kg		101	80 - 120

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: LCS 500-154851/5**

**Matrix: Solid**

**Analysis Batch: 154851**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	43.7		ug/Kg		87	54 - 143
Chloroform	50.0	49.5		ug/Kg		99	76 - 117
Chloromethane	50.0	41.5		ug/Kg		83	56 - 144
cis-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	75 - 119
cis-1,3-Dichloropropene	53.8	52.3		ug/Kg		97	71 - 112
Dibromochloromethane	50.0	50.8		ug/Kg		102	73 - 120
Dibromomethane	50.0	48.8		ug/Kg		98	76 - 120
Dichlorodifluoromethane	50.0	32.9		ug/Kg		66	43 - 139
Ethylbenzene	50.0	50.3		ug/Kg		101	79 - 115
Hexachlorobutadiene	50.0	39.8		ug/Kg		80	71 - 128
Isopropylbenzene	50.0	43.8		ug/Kg		88	68 - 120
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	60 - 125
Methylene Chloride	50.0	50.3		ug/Kg		101	63 - 130
Naphthalene	50.0	45.3		ug/Kg		91	72 - 127
n-Butylbenzene	50.0	46.0		ug/Kg		92	78 - 119
N-Propylbenzene	50.0	48.2		ug/Kg		96	77 - 114
p-Isopropyltoluene	50.0	45.2		ug/Kg		90	77 - 120
sec-Butylbenzene	50.0	48.2		ug/Kg		96	79 - 117
Styrene	50.0	49.5		ug/Kg		99	80 - 120
tert-Butylbenzene	50.0	49.4		ug/Kg		99	80 - 120
Tetrachloroethene	50.0	49.4		ug/Kg		99	71 - 120
Toluene	50.0	48.1		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 119
trans-1,3-Dichloropropene	48.6	49.2		ug/Kg		101	66 - 116
Trichloroethene	50.0	47.1		ug/Kg		94	75 - 120
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	66 - 126
Vinyl chloride	50.0	46.4		ug/Kg		93	51 - 149
Xylenes, Total	150	140		ug/Kg		93	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 131
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane	102		74 - 123
Toluene-d8 (Surr)	100		80 - 120

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

**Lab Sample ID: MB 500-155114/1-A**

**Matrix: Solid**

**Analysis Batch: 155451**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155114**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<17		33	17	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
2-Methylnaphthalene	<43		170	43	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Acenaphthene	<9.9		33	9.9	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Acenaphthylene	<7.6		33	7.6	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Anthracene	<7.8		33	7.8	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[a]anthracene	<7.0		33	7.0	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[a]pyrene	<6.1		33	6.1	ug/Kg		07/05/12 08:07	07/07/12 19:31	1

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: MB 500-155114/1-A**

**Matrix: Solid**

**Analysis Batch: 155451**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155114**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<6.5		33	6.5	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[k]fluoranthene	<7.9		33	7.9	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Chrysene	<7.5		33	7.5	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Dibenz(a,h)anthracene	<9.3		33	9.3	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Fluoranthene	<14		33	14	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Fluorene	<7.6		33	7.6	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Indeno[1,2,3-cd]pyrene	<11		33	11	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Naphthalene	<6.4		33	6.4	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Phenanthrene	<14		33	14	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Pyrene	<12		33	12	ug/Kg		07/05/12 08:07	07/07/12 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		30 - 119	07/05/12 08:07	07/07/12 19:31	1
Nitrobenzene-d5	104		30 - 115	07/05/12 08:07	07/07/12 19:31	1
Terphenyl-d14	110		36 - 134	07/05/12 08:07	07/07/12 19:31	1

**Lab Sample ID: LCS 500-155114/2-A**

**Matrix: Solid**

**Analysis Batch: 155493**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155114**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	1670	1320		ug/Kg		79	62 - 110
Acenaphthene	1670	1290		ug/Kg		77	67 - 110
Acenaphthylene	1670	1450		ug/Kg		87	67 - 110
Anthracene	1670	1480		ug/Kg		89	67 - 112
Benzo[a]anthracene	1670	1470		ug/Kg		88	68 - 117
Benzo[a]pyrene	1670	1380		ug/Kg		83	64 - 118
Benzo[b]fluoranthene	1670	1420		ug/Kg		85	60 - 118
Benzo[g,h,i]perylene	1670	1620		ug/Kg		97	66 - 130
Benzo[k]fluoranthene	1670	1340		ug/Kg		80	56 - 129
Chrysene	1670	1540		ug/Kg		92	66 - 118
Dibenz(a,h)anthracene	1670	1470		ug/Kg		88	62 - 126
Fluoranthene	1670	1600		ug/Kg		96	68 - 121
Fluorene	1670	1220		ug/Kg		73	66 - 112
Indeno[1,2,3-cd]pyrene	1670	1540		ug/Kg		92	67 - 127
Naphthalene	1670	1350		ug/Kg		81	65 - 110
Phenanthrene	1670	1500		ug/Kg		90	66 - 118
Pyrene	1670	1530		ug/Kg		92	66 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	94		30 - 119
Nitrobenzene-d5	105		30 - 115
Terphenyl-d14	116		36 - 134

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

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

**Lab Sample ID: MB 500-155091/1-A**  
**Matrix: Solid**  
**Analysis Batch: 155204**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 155091**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1254	9.57	J	17	3.6	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/04/12 17:50	07/05/12 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		50 - 116	07/04/12 17:50	07/05/12 16:51	1
DCB Decachlorobiphenyl	111		48 - 142	07/04/12 17:50	07/05/12 16:51	1

**Lab Sample ID: LCS 500-155091/3-A**  
**Matrix: Solid**  
**Analysis Batch: 155204**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 155091**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	141		ug/Kg		85	59 - 110
PCB-1260	167	190		ug/Kg		114	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		50 - 116
DCB Decachlorobiphenyl	115		48 - 142

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 500-154879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 155516**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 154879**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.22		1.0	0.22	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Barium	<0.12		1.0	0.12	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Cadmium	<0.050		0.20	0.050	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Chromium	<0.17		1.0	0.17	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Lead	<0.17		0.50	0.17	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Selenium	<0.29		1.0	0.29	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Silver	<0.060		0.50	0.060	mg/Kg		07/02/12 16:25	07/08/12 16:27	1

**Lab Sample ID: LCS 500-154879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 155516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 154879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.62		mg/Kg		96	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	21.1		mg/Kg		105	80 - 120
Lead	10.0	11.8		mg/Kg		118	80 - 120

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-154879/2-A  
Matrix: Solid  
Analysis Batch: 155516

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 154879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	10.0	8.73		mg/Kg		87	80 - 120
Silver	5.00	5.06		mg/Kg		101	80 - 120

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-155507/7-A  
Matrix: Solid  
Analysis Batch: 155597

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 155507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	8.50	J	17	5.1	ug/Kg		07/09/12 09:00	07/09/12 11:30	1

Lab Sample ID: LCS 500-155507/8-A  
Matrix: Solid  
Analysis Batch: 155597

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 155507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	167	148		ug/Kg		89	80 - 120

Lab Sample ID: 500-47663-7 MS  
Matrix: Solid  
Analysis Batch: 155597

Client Sample ID: B83 (0-1)  
Prep Type: Total/NA  
Prep Batch: 155507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	210		78.4	282		ug/Kg	☼	96	75 - 125

Lab Sample ID: 500-47663-7 MSD  
Matrix: Solid  
Analysis Batch: 155597

Client Sample ID: B83 (0-1)  
Prep Type: Total/NA  
Prep Batch: 155507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	210		84.3	289		ug/Kg	☼	97	75 - 125	2	20

Lab Sample ID: 500-47663-7 DU  
Matrix: Solid  
Analysis Batch: 155597

Client Sample ID: B83 (0-1)  
Prep Type: Total/NA  
Prep Batch: 155507

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	210		239		ug/Kg	☼	14	20

## Method: 9014 - Cyanide

Lab Sample ID: MB 500-154722/1-A  
Matrix: Solid  
Analysis Batch: 154739

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 154722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.370	J	0.50	0.17	mg/Kg		06/30/12 10:40	06/30/12 12:17	1



# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Method: 9014 - Cyanide (Continued)

Lab Sample ID: LCS 500-154722/2-A  
Matrix: Solid  
Analysis Batch: 154739

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 154722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	80 - 120

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# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B34 (0-1)

Date Collected: 06/21/12 09:00

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-1

Matrix: Solid  
 Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 02:56	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/07/12 21:59	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 20:10	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 17:50	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:34	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B34 (2-4)

Date Collected: 06/21/12 09:05

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-2

Matrix: Solid  
 Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 09:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 03:20	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/07/12 22:19	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 20:24	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 17:56	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:36	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B23 (0-1)

Date Collected: 06/21/12 09:30

Date Received: 06/26/12 10:30

## Lab Sample ID: 500-47663-3

Matrix: Solid  
 Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 03:44	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/07/12 22:38	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		5	155204	07/06/12 10:10	PG	TAL CHI

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B23 (0-1)

## Lab Sample ID: 500-47663-3

Date Collected: 06/21/12 09:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 66.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:02	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:38	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B42 (0-1)

## Lab Sample ID: 500-47663-4

Date Collected: 06/21/12 11:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 11:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 04:08	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/07/12 22:58	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		2	155204	07/06/12 10:24	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:09	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:40	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B42 (2-4)

## Lab Sample ID: 500-47663-5

Date Collected: 06/21/12 11:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 11:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 04:32	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/07/12 23:18	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 21:07	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:30	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:42	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B42 (2-4)**

**Lab Sample ID: 500-47663-5**

Date Collected: 06/21/12 11:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

**Client Sample ID: B50 (0-1)**

**Lab Sample ID: 500-47663-6**

Date Collected: 06/21/12 13:00

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 04:56	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155582	07/09/12 16:49	GES	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		5	155204	07/06/12 10:39	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:36	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:47	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

**Client Sample ID: B83 (0-1)**

**Lab Sample ID: 500-47663-7**

Date Collected: 06/21/12 12:35

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 12:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 05:20	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/07/12 23:57	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 21:35	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:42	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 14:26	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

## Client Sample ID: B83 (2-4)

Lab Sample ID: 500-47663-8

Date Collected: 06/21/12 12:40

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 05:44	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/08/12 00:17	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 21:50	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:48	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:58	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B2 (0-2)

Lab Sample ID: 500-47663-9

Date Collected: 06/21/12 10:10

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 06:09	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/08/12 00:36	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1000	155204	07/06/12 10:53	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 18:54	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 11:59	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

## Client Sample ID: B84 (2-4)

Lab Sample ID: 500-47663-10

Date Collected: 06/21/12 10:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 08:10	BDA	TAL CHI
Total/NA	Prep	5035	DL		154235	06/21/12 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	500	154851	07/03/12 08:34	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/08/12 00:56	DA	TAL CHI

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47663-1

**Client Sample ID: B84 (2-4)**

**Lab Sample ID: 500-47663-10**

Date Collected: 06/21/12 10:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		10	155204	07/06/12 11:07	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 19:01	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 12:01	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

**Client Sample ID: B50 (9.5-11.5)**

**Lab Sample ID: 500-47663-11**

Date Collected: 06/21/12 13:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154235	06/21/12 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 08:59	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/08/12 01:16	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		1	155204	07/05/12 22:33	PG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 19:07	TDS	TAL CHI
Total/NA	Prep	7471A			155507	07/09/12 09:00	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155597	07/09/12 12:03	MBG	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	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: 500-47663-1

Project/Site: MadisonKipp WI001283.0008.00001

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Georgia	State Program	4	N/A
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Kentucky (UST)	State Program	4	66
TestAmerica Chicago	L-A-B	DoD ELAP		L2304
TestAmerica Chicago	L-A-B	ISO/IEC 17025		L2304
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina DENR	State Program	4	291
TestAmerica Chicago	North Dakota	State Program	8	R-194
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	Federal		P330-12-00038
TestAmerica Chicago	Virginia	NELAC	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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

**CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM**

Lab Work Order # **500-47663**

*ARCADIS HOMELOGOUS A ON HOLD FOR AREAS*

Send Results to:	Contact & Company Name: <b>Toni Schoen ARCADIS</b>		Telephone: <b>414.277.6222</b>		Preservative	F	E	E								<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>MeOH</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: <b>126 N. Jefferson St #400</b>		Fax: <b>414.276.7603</b>		Filtered (✓)	NO	NO	NO								
	City State Zip: <b>Milw WI 53202</b>		E-mail Address: <b>toni.schoen@arcadis-us.com</b>		# of Containers	1	1	1								
	Project Name/Location (City, State): <b>MADISON/KIPP/MADISON, WI</b>		Project #: <b>W1001283.0008.00001</b>		Container Information	6	7	7								
Sampler's Printed Name: <b>JAY READ</b>		Sampler's Signature: 		<b>PARAMETER ANALYSIS &amp; METHOD</b>												
				<i>VOCs 8260            PCBs/PAHs 8082/8270C            PCE/MEQs            Toluene/Cyanide            Dioxin/TCDFs            9014</i>												
<b>Sample ID</b>	<b>Collection</b>	<b>Type (✓)</b>	<b>Matrix</b>													
	Date Time	Comp. Grab														
1 B34 (0-1)	6/21/12 0900	✓ S														
2 B34 (2-4)	0905	✓ S														
3 B23 (0-1)	0930	✓ S														
<del>B23 (2-4) RJP</del>	<del>0935</del>	<del>✓ S</del>														
4 B42 (0-1)	1130	✓ S														
5 B42 (2-4)	1135	✓ S														
6 B50 (0-1)	1300	✓ S														
<del>B50 (2-4) RJP</del>	<del>1305</del>	<del>✓ S</del>														
7 B83 (0-1)	1235	✓ S														
8 B83 (2-4)	1240	✓ S														
9 B2 (0-2)	1010	✓ S														
10 B84 (2-4)	1030	✓ S														
11 B50 (9.5-11.5)	1330	✓ S														

**REMARKS FID (ppm)**

0.0  
0.25  
0.0  
-  
10.36  
17.28  
16.63  
-  
14.66  
15.02  
8.67  
18.56  
98.05

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

<b>Laboratory Information and Receipt</b>		<b>Relinquished By</b>		<b>Received By</b>		<b>Relinquished By</b>		<b>Laboratory Received By</b>	
Lab Name: <b>TRST AMERICA</b>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <b>TIM AKSS/</b>	Signature: 	Printed Name: <b>JEFF LUNT</b>	Signature: 	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)		Firm: <b>ARCADIS</b>	Date/Time: <b>6/25/12 1700</b>	Firm/Courier: <b>TA</b>	Date/Time: <b>6/26/12 1030</b>	Firm/Courier:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: <b>STWDMO</b>	Sample Receipt: <b>25</b>								
Shipping Tracking #:	Condition/Cooler Temp: _____								



## Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-47663-1

**Login Number: 47663**

**List Source: TestAmerica Chicago**

**List Number: 1**

**Creator: Lunt, Jeff T**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.5
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

