



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

February 23, 2016

Chris Kubacki
ARCADIS
126 N Jefferson St., Ste 400
Milwaukee, WI 53202
RE: Madison Kipp - Madison, WI

Enclosed are the analytical results for the samples received by the laboratory on 02/22/2016.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2016
FDOH	Florida Secondary NELAP Accreditation	E871093	06/30/2016
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2016
KDHE	Kansas Secondary NELAP Accreditation	E-10384	05/31/2016
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2016
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2016
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2014-153	08/31/2016
TCEQ	Texas Secondary NELAP Accreditation	T104704504-15-6	11/30/2016
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2016



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ARCADIS
126 N Jefferson St., Ste 400
Milwaukee WI, 53202

Project: Madison Kipp - Madison, WI
Project Number: WI001368.0034
Project Manager: Chris Kubacki

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BP-SIDE-51	A160902-01	Soil	02/22/2016	02/22/2016
BP-SIDE-52	A160902-02	Soil	02/22/2016	02/22/2016
BP-SIDE-53	A160902-03	Soil	02/22/2016	02/22/2016
BP-BOT-54	A160902-04	Soil	02/22/2016	02/22/2016
BP-SIDE-55	A160902-05	Soil	02/22/2016	02/22/2016
DUP-3	A160902-06	Soil	02/22/2016	02/22/2016

CASE NARRATIVE

Sample Receipt Information:

6 samples were received on 02/22/2016. Samples were received at 1.5 degrees Celsius. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.



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Project: Madison Kipp - Madison, WI
 Project Number: WI001368.0034
 Project Manager: Chris Kubacki

BP-SIDE-51
A160902-01 (Soil)

Date Sampled
 02/22/2016 12:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.0097	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1221	ND	0.0054	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1232	ND	0.0037	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1242	ND	0.0058	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1248	ND	0.0070	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1254	ND	0.0058	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
PCB-1260	ND	0.0032	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	
Total PCBs	ND	0.0097	0.13	mg/kg dry	1	02/22/2016	02/22/2016 17:53	EPA 8082A	

Surrogate: Decachlorobiphenyl

80.9 % 66.3-138

02/22/2016 02/22/2016 17:53

EPA 8082A

Surrogate: Tetrachloro-meta-xylene

88.2 % 61.6-142

02/22/2016 02/22/2016 17:53

EPA 8082A

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	76.2		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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ARCADIS 126 N Jefferson St., Ste 400 Milwaukee WI, 53202	Project: Madison Kipp - Madison, WI Project Number: WI001368.0034 Project Manager: Chris Kubacki
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BP-SIDE-52
A160902-02 (Soil)

Date Sampled
02/22/2016 16:08

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.0099	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1221	ND	0.0055	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1232	ND	0.0038	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1242	ND	0.0059	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1248	ND	0.0071	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1254	2.9	0.0059	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
PCB-1260	1.5	0.0032	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
Total PCBs	4.4	0.0099	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:18	EPA 8082A	
Surrogate: Decachlorobiphenyl			82.7 %	66.3-138		02/22/2016	02/22/2016 18:18	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			97.2 %	61.6-142		02/22/2016	02/22/2016 18:18	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	74.6		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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 Project Number: WI001368.0034
 Project Manager: Chris Kubacki

BP-SIDE-53
A160902-03 (Soil)

Date Sampled
02/22/2016 16:06

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.0096	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1248	ND	0.0068	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1254	0.48	0.0057	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	
Total PCBs	0.48	0.0096	0.13	mg/kg dry	1	02/22/2016	02/22/2016 18:43	EPA 8082A	

Surrogate: Decachlorobiphenyl

83.4 % 66.3-138

02/22/2016

02/22/2016 18:43

EPA 8082A

Surrogate: Tetrachloro-meta-xylene

94.1 % 61.6-142

02/22/2016

02/22/2016 18:43

EPA 8082A

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	77.5		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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BP-BOT-54
A160902-04 (Soil)

Date Sampled
02/22/2016 16:04

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.011	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1221	ND	0.0059	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1232	ND	0.0040	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1242	ND	0.0063	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1248	ND	0.0076	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1254	ND	0.0063	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
PCB-1260	ND	0.0035	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	
Total PCBs	ND	0.011	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:08	EPA 8082A	

Surrogate: Decachlorobiphenyl			64.2 %	66.3-138		02/22/2016	02/22/2016 19:08	EPA 8082A	S
Surrogate: Tetrachloro-meta-xylene			92.8 %	61.6-142		02/22/2016	02/22/2016 19:08	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	69.3		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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BP-SIDE-55
A160902-05 (Soil)

Date Sampled
02/22/2016 16:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.010	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1221	ND	0.0057	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1232	ND	0.0039	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1242	ND	0.0062	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1248	ND	0.0074	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1254	2.5	0.0062	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
PCB-1260	1.2	0.0034	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
Total PCBs	3.7	0.010	0.14	mg/kg dry	1	02/22/2016	02/22/2016 19:33	EPA 8082A	
Surrogate: Decachlorobiphenyl			83.6 %	66.3-138		02/22/2016	02/22/2016 19:33	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			98.4 %	61.6-142		02/22/2016	02/22/2016 19:33	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	71.4		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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DUP-3
A160902-06 (Soil)

Date Sampled
02/22/2016 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Polychlorinated Biphenyls by EPA Method 8082

Preparation Batch: A602061

PCB-1016	ND	0.010	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1221	ND	0.0055	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1232	ND	0.0038	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1242	ND	0.0059	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1248	ND	0.0071	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1254	ND	0.0059	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
PCB-1260	ND	0.0032	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
Total PCBs	ND	0.010	0.13	mg/kg dry	1	02/22/2016	02/22/2016 20:47	EPA 8082A	
Surrogate: Decachlorobiphenyl			70.2 %	66.3-138		02/22/2016	02/22/2016 20:47	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			88.1 %	61.6-142		02/22/2016	02/22/2016 20:47	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602059

% Solids	74.4		0.00	% by Weight	1	02/22/2016	02/23/2016 12:30	SM 2540B	
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ARCADIS
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 Project Number: WI001368.0034
 Project Manager: Chris Kubacki

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A602061 - EPA 3570

Blank (A602061-BLK1)		Prepared: 02/22/2016 Analyzed: 02/22/2016 17:03								
PCB-1016	ND	0.10	mg/kg wet							
PCB-1221	ND	0.10	mg/kg wet							
PCB-1232	ND	0.10	mg/kg wet							
PCB-1242	ND	0.10	mg/kg wet							
PCB-1248	ND	0.10	mg/kg wet							
PCB-1254	ND	0.10	mg/kg wet							
PCB-1260	ND	0.10	mg/kg wet							
Total PCBs	ND	0.10	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.218		mg/kg wet	0.2400		90.8	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.227		mg/kg wet	0.2400		94.6	61.6-142			

LCS (A602061-BS1)		Prepared: 02/22/2016 Analyzed: 02/22/2016 17:28								
PCB-1254	1.96	0.10	mg/kg wet	2.000		97.9	74-128			
Surrogate: Decachlorobiphenyl	0.222		mg/kg wet	0.2400		92.6	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.230		mg/kg wet	0.2400		95.8	61.6-142			

Matrix Spike (A602061-MS1)		Source: A160902-05		Prepared: 02/22/2016 Analyzed: 02/22/2016 19:58						
PCB-1254	4.76	0.14	mg/kg dry	2.802	2.51	80.2	50.3-155			
Surrogate: Decachlorobiphenyl	0.262		mg/kg dry	0.3363		78.0	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.308		mg/kg dry	0.3363		91.6	61.6-142			

Matrix Spike Dup (A602061-MSD1)		Source: A160902-05		Prepared: 02/22/2016 Analyzed: 02/22/2016 20:23						
PCB-1254	4.66	0.14	mg/kg dry	2.802	2.51	76.5	50.3-155	4.77	20	
Surrogate: Decachlorobiphenyl	0.259		mg/kg dry	0.3363		77.0	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.312		mg/kg dry	0.3363		92.7	61.6-142			



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Project: Madison Kipp - Madison, WI
 Project Number: WI001368.0034
 Project Manager: Chris Kubacki

Classical Chemistry Parameters - Quality Control

ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A602059 - % Solids

Duplicate (A602059-DUP1)	Source: A160805-01	Prepared: 02/22/2016	Analyzed: 02/23/2016 12:30
% Solids	81.9	0.00 % by Weight	81.3
			0.719
			20



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Project Number: WI001368.0034
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Notes and Definitions

- S Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference

