



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

March 01, 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 02/29/2016.

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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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-57	A161001-01	Soil	02/29/2016	02/29/2016
BP-BOT-58	A161001-02	Soil	02/29/2016	02/29/2016
BP-SIDE-59	A161001-03	Soil	02/29/2016	02/29/2016
BP-SIDE-60	A161001-04	Soil	02/29/2016	02/29/2016

CASE NARRATIVE

Sample Receipt Information:

4 samples were received on 02/29/2016. Samples were received at 0.6 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.

Sample Preparation:

Sample A161001-02 had to be prepared at an initial dilution factor of 2.5 due to the sample matrix.

Continuing Calibration Verification (CCV):

CCV indicates a potential high bias for PCB-1016 for samples A161001-01 through A161001-04. Samples were less than the reporting limit for this analyte so no further action is required.



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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-57
A161001-01 (Soil)

Date Sampled
02/29/2016 10:52

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: A602083

PCB-1016	ND	0.0096	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	
PCB-1248	0.11	0.0069	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	J
PCB-1254	0.13	0.0057	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	
PCB-1260	0.0049	0.0031	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	J
Total PCBs	0.24	0.0096	0.13	mg/kg dry	1	02/29/2016	02/29/2016 14:45	EPA 8082A	

Surrogate: Decachlorobiphenyl

90.0 % 66.3-138

02/29/2016

02/29/2016 14:45

EPA 8082A

Surrogate: Tetrachloro-meta-xylene

100 % 61.6-142

02/29/2016

02/29/2016 14:45

EPA 8082A

Classical Chemistry Parameters

Preparation Batch: A602085

% Solids	77.3	0.00	% by Weight	1	02/29/2016	02/29/2016 17:45	SM 2540B		
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BP-BOT-58
A161001-02 (Soil)

Date Sampled
02/29/2016 10:47

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: A602083

PCB-1016	ND	0.025	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1221	ND	0.014	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1232	ND	0.0096	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1242	ND	0.015	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1248	ND	0.018	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1254	ND	0.015	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
PCB-1260	ND	0.0082	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
Total PCBs	ND	0.025	0.34	mg/kg dry	1	02/29/2016	02/29/2016 16:24	EPA 8082A	
Surrogate: Decachlorobiphenyl			99.6 %	66.3-138		02/29/2016	02/29/2016 16:24	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			112 %	61.6-142		02/29/2016	02/29/2016 16:24	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602085

% Solids	73.0		0.00	% by Weight	1	02/29/2016	02/29/2016 17:45	SM 2540B	
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BP-SIDE-59
A161001-03 (Soil)

Date Sampled
02/29/2016 10:50

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: A602083

PCB-1016	ND	0.0094	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
PCB-1221	ND	0.0052	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
PCB-1242	ND	0.0056	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
PCB-1248	ND	0.0067	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
PCB-1254	0.033	0.0056	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	J
PCB-1260	ND	0.0030	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	
Total PCBs	0.033	0.0094	0.13	mg/kg dry	1	02/29/2016	02/29/2016 15:10	EPA 8082A	J

Surrogate: Decachlorobiphenyl			99.4 %	66.3-138		02/29/2016	02/29/2016 15:10	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			112 %	61.6-142		02/29/2016	02/29/2016 15:10	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602085

% Solids	78.7		0.00	% by Weight	1	02/29/2016	02/29/2016 17:45	SM 2540B	
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BP-SIDE-60
A161001-04 (Soil)

Date Sampled
 02/29/2016 10:45

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: A602083

PCB-1016	ND	0.010	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1221	ND	0.0057	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1232	ND	0.0039	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1242	ND	0.0061	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1248	ND	0.0073	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1254	5.6	0.0061	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
PCB-1260	ND	0.0033	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	
Total PCBs	5.6	0.010	0.14	mg/kg dry	1	02/29/2016	02/29/2016 15:35	EPA 8082A	

Surrogate: Decachlorobiphenyl			94.7 %	66.3-138		02/29/2016	02/29/2016 15:35	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			111 %	61.6-142		02/29/2016	02/29/2016 15:35	EPA 8082A	

Classical Chemistry Parameters

Preparation Batch: A602085

% Solids	72.1		0.00	% by Weight	1	02/29/2016	02/29/2016 17:45	SM 2540B	
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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 A602083 - EPA 3570

Blank (A602083-BLK1)

Prepared: 02/29/2016 Analyzed: 02/29/2016 13:55

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	0.214		mg/kg wet	0.2400		89.2	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.244		mg/kg wet	0.2400		102	61.6-142			

LCS (A602083-BS1)

Prepared: 02/29/2016 Analyzed: 02/29/2016 14:20

PCB-1254	1.97	0.10	mg/kg wet	2.000		98.3	74-128			
Surrogate: Decachlorobiphenyl	0.218		mg/kg wet	0.2400		90.7	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.243		mg/kg wet	0.2400		101	61.6-142			

Matrix Spike (A602083-MS1)

Source: A161001-01

Prepared: 02/29/2016 Analyzed: 02/29/2016 16:00

PCB-1254	2.79	0.13	mg/kg dry	2.588	0.126	103	50.3-155			
Surrogate: Decachlorobiphenyl	0.301		mg/kg dry	0.3106		96.8	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.338		mg/kg dry	0.3106		109	61.6-142			

Matrix Spike Dup (A602083-MSD1)

Source: A161001-01

Prepared: 02/29/2016 Analyzed: 02/29/2016 16:49

PCB-1254	3.09	0.13	mg/kg dry	2.588	0.126	115	50.3-155	10.7	20	
Surrogate: Decachlorobiphenyl	0.299		mg/kg dry	0.3106		96.2	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.354		mg/kg dry	0.3106		114	61.6-142			



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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 A602085 - % Solids

Duplicate (A602085-DUP1)	Source: A161001-01	Prepared: 02/29/2016	Analyzed: 02/29/2016 17:45
% Solids	79.7	0.00 % by Weight	77.3
			3.15
			20



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Notes and Definitions

- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- 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

