



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

February 09, 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 02/05/2016.

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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Project: Madison Kipp - Madison, WI  
Project Number: WI001368.0034.00001  
Project Manager: Chris Kubacki

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-BP-21-1'	A160613-01	Soil	01/29/2016	01/29/2016
SB-BP-21-3'	A160613-02	Soil	01/29/2016	01/29/2016

**CASE NARRATIVE**

**Sample Receipt Information:**

Samples released from hold on 2/4/2016 by client via email. Samples were removed from the freezer and re-logged in on this work order. Samples were originally received on 1/29/2016. Samples were received on ice. 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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**SB-BP-21-1'**  
**A160613-01 (Soil)**

Date Sampled  
 01/29/2016 12:35

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: A602018**

PCB-1016	ND	0.0080	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
PCB-1221	ND	0.0044	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
PCB-1232	ND	0.0030	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
PCB-1242	ND	0.0047	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
<b>PCB-1248</b>	<b>2.6</b>	0.0057	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
PCB-1254	ND	0.0047	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
PCB-1260	ND	0.0026	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	
<b>Total PCBs</b>	<b>2.6</b>	0.0080	0.11	mg/kg dry	1	02/08/2016	02/08/2016 14:15	EPA 8082A	

Surrogate: Decachlorobiphenyl			88.0 %	66.3-138		02/08/2016	02/08/2016 14:15	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			102 %	61.6-142		02/08/2016	02/08/2016 14:15	EPA 8082A	

**Classical Chemistry Parameters**

**Preparation Batch: A602023**

<b>% Solids</b>	<b>93.1</b>		0.00	% by Weight	1	02/08/2016	02/09/2016 10:00	SM 2540B	
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**SB-BP-21-3'**  
**A160613-02 (Soil)**

**Date Sampled**  
**01/29/2016 12:40**

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: A602018**

PCB-1016	ND	0.0095	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1242	ND	0.0056	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1248	ND	0.0068	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1254	ND	0.0056	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
Total PCBs	ND	0.0095	0.13	mg/kg dry	1	02/08/2016	02/08/2016 14:40	EPA 8082A	
Surrogate: Decachlorobiphenyl			87.8 %	66.3-138		02/08/2016	02/08/2016 14:40	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			109 %	61.6-142		02/08/2016	02/08/2016 14:40	EPA 8082A	

**Classical Chemistry Parameters**

**Preparation Batch: A602023**

<b>% Solids</b>	<b>77.9</b>		0.00	% by Weight	1	02/08/2016	02/09/2016 10:00	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 A602018 - EPA 3570**

**Blank (A602018-BLK1)** Prepared: 02/08/2016 Analyzed: 02/08/2016 13:25

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	0.216		mg/kg wet	0.2400		89.9	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.238		mg/kg wet	0.2400		99.0	61.6-142			

**LCS (A602018-BS1)** Prepared: 02/08/2016 Analyzed: 02/08/2016 13:50

PCB-1254	1.88	0.10	mg/kg wet	2.000		94.1	74-128			
Surrogate: Decachlorobiphenyl	0.209		mg/kg wet	0.2400		87.2	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.230		mg/kg wet	0.2400		95.8	61.6-142			

**Matrix Spike (A602018-MS1)** Source: A160613-02 Prepared: 02/08/2016 Analyzed: 02/08/2016 15:05

PCB-1254	2.43	0.13	mg/kg dry	2.566	ND	94.6	50.3-155			
Surrogate: Decachlorobiphenyl	0.266		mg/kg dry	0.3079		86.3	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.299		mg/kg dry	0.3079		97.0	61.6-142			

**Matrix Spike Dup (A602018-MSD1)** Source: A160613-02 Prepared: 02/08/2016 Analyzed: 02/08/2016 15:30

PCB-1254	2.45	0.13	mg/kg dry	2.566	ND	95.4	50.3-155	0.837	20	
Surrogate: Decachlorobiphenyl	0.267		mg/kg dry	0.3079		86.8	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.296		mg/kg dry	0.3079		96.1	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 A602023 - % Solids**

<b>Duplicate (A602023-DUP1)</b>	<b>Source: A160613-02</b>	Prepared: 02/08/2016 Analyzed: 02/09/2016 10:00				
% Solids	78.2	0.00	% by Weight	77.9	0.371	20



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### Notes and Definitions

- 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

ID#:

## CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

A160613

Lab Work Order #  
A160507

<b>Send Results to:</b>	Contact & Company Name:		Telephone: <u>414-277-6227</u>		Preservative: <u>E</u>																																		
	Address: <u>126 N Jefferson St, #400</u>		Fax:		Filtered (✓): <u>-</u>																																		
	City: <u>Milwaukee, WI</u> State: <u>WI</u> Zip: <u>53202</u>		E-mail Address: <u>Chris.Kubacki@arcadis.com</u>		# of Containers: <u>1</u>																																		
Project Name/Location (City, State): <u>KIPP/Madison, WI</u>		Project #: <u>WI00368.0034.00001</u>		<b>PARAMETER ANALYSIS &amp; METHOD</b>																																			
Sampler's Printed Name: <u>Tim Papan</u>		Sampler's Signature: <u>Tim Papan</u>		PCB																																			
<b>Sample ID</b>		<b>Collection</b>																			<b>Type (✓)</b>		<b>Matrix</b>																
SB-BP-21-1'		1-29-16 1235																			SO		SO												Hold 01 14				
SB-BP-21-3'		↓ 1240		↓		↓												02-05-16 Hold 02 15																					
SB-BP-21-6'		↓ 1245		↓		↓												Hold 16																					

**Keys**

**Preservation Key:**  
 A. H<sub>2</sub>SO<sub>4</sub>  
 B. HCL  
 C. HNO<sub>3</sub>  
 D. NaOH  
 E. None  
 F. Other: \_\_\_\_\_  
 G. Other: \_\_\_\_\_  
 H. Other: \_\_\_\_\_

**Container Information Key:**  
 1. 40 ml Vial  
 2. 1 L Amber  
 3. 250 ml Plastic  
 4. 500 ml Plastic  
 5. Encore  
 6. 2 oz. Glass  
 7. 4 oz. Glass  
 8. 8 oz. Glass  
 9. Other: \_\_\_\_\_  
 10. Other: \_\_\_\_\_

**Matrix Key:**  
 SO - Soil SE - Sediment NL - NAPL/Oil  
 W - Water SL - Sludge SW - Sample Wipe  
 T - Tissue A - Air Other: \_\_\_\_\_

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

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <u>ECCS</u>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Tim Papan</u>	Signature: <u>Tim Papan</u>	Printed Name: <u>Michaela Lynders</u>	Signature: <u>[Signature]</u>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)		Firm: <u>ARCADIS</u>	Date/Time: <u>1-29-16/</u>	Firm/Courier: <u>ECCS / PACE</u>	Date/Time: <u>01/24/16/1455</u>	Firm:	Firm/Courier:	Firm:	Firm/Courier:
Specify Turnaround Requirements: <u>Standard</u>	Sample Receipt: <u>03/26/17</u> SN: <u>150266900</u>								
Shipping Tracking #: <u>NA-Courier</u>	Condition/Cooler Temp: <u>1.5</u>								