



2525 Advance Road  
Madison, WI 53718  
608.221.8700 Phone  
608.221.4889 Fax

January 22, 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 01/21/2016.

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,

Kari-Ann Killian For Jessica Esser  
Project Manager

**Certification List**

**Expires**

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 01/31/2016
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-45	A160409-01	Soil	01/21/2016	01/21/2016
BP-BOT-46	A160409-02	Soil	01/21/2016	01/21/2016
BP-SIDE-47	A160409-03	Soil	01/21/2016	01/21/2016
BP-SIDE-48	A160409-04	Soil	01/21/2016	01/21/2016

**CASE NARRATIVE**

**Sample Receipt Information:**

4 samples were received on 01/21/2016. 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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 Milwaukee WI, 53202

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

**BP-SIDE-45**  
**A160409-01 (Soil)**

**Date Sampled**  
**01/21/2016 14:00**

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: A601053**

PCB-1016	ND	0.0099	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
PCB-1221	ND	0.0055	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
PCB-1232	ND	0.0038	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
PCB-1242	ND	0.0059	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
PCB-1248	ND	0.0071	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
<b>PCB-1254</b>	<b>11</b>	0.0059	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
PCB-1260	ND	0.0032	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	
<b>Total PCBs</b>	<b>11</b>	0.0099	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:08	EPA 8082A	

Surrogate: Decachlorobiphenyl 81.1 % 66.3-138 01/21/2016 01/21/2016 21:08 EPA 8082A

Surrogate: Tetrachloro-meta-xylene 89.1 % 61.6-142 01/21/2016 01/21/2016 21:08 EPA 8082A

**Classical Chemistry Parameters**

**Preparation Batch: A601054**

<b>% Solids</b>	<b>74.5</b>		0.00	% by Weight	1	01/21/2016	01/22/2016 09:59	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-BOT-46**  
**A160409-02 (Soil)**

Date Sampled  
 01/21/2016 14:05

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: A601053**

PCB-1016	ND	0.0097	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1221	ND	0.0053	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1232	ND	0.0037	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1242	ND	0.0057	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1248	ND	0.0069	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1254	ND	0.0057	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
Total PCBs	ND	0.0097	0.13	mg/kg dry	1	01/21/2016	01/21/2016 21:33	EPA 8082A	
Surrogate: Decachlorobiphenyl			99.2 %	66.3-138		01/21/2016	01/21/2016 21:33	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			100 %	61.6-142		01/21/2016	01/21/2016 21:33	EPA 8082A	

**Classical Chemistry Parameters**

**Preparation Batch: A601054**

% Solids	76.6		0.00	% by Weight	1	01/21/2016	01/22/2016 09:59	SM 2540B	
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**BP-SIDE-47**  
**A160409-03 (Soil)**

Date Sampled  
 01/21/2016 14:15

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: A601053**

PCB-1016	ND	0.51	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
PCB-1221	ND	0.28	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
PCB-1232	ND	0.19	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
PCB-1242	ND	0.30	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
PCB-1248	ND	0.36	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
<b>PCB-1254</b>	<b>69</b>	0.30	6.9	mg/kg dry	50	01/21/2016	01/22/2016 10:16	EPA 8082A	D
PCB-1260	ND	0.16	6.9	mg/kg dry	50	01/21/2016	01/21/2016 21:58	EPA 8082A	
<b>Total PCBs</b>	<b>69</b>	0.010	0.14	mg/kg dry	1	01/21/2016	01/21/2016 21:58	EPA 8082A	
Surrogate: Decachlorobiphenyl			86.2 %	66.3-138		01/21/2016	01/21/2016 21:58	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			91.3 %	61.6-142		01/21/2016	01/21/2016 21:58	EPA 8082A	

**Classical Chemistry Parameters**

**Preparation Batch: A601054**

<b>% Solids</b>	<b>72.8</b>		0.00	% by Weight	1	01/21/2016	01/22/2016 09:59	SM 2540B	
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**BP-SIDE-48**  
**A160409-04 (Soil)**

Date Sampled  
 01/21/2016 14:20

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: A601053**

PCB-1016	ND	0.0094	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
PCB-1221	ND	0.0052	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
PCB-1242	ND	0.0056	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
PCB-1248	ND	0.0068	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
<b>PCB-1254</b>	<b>30</b>	0.11	2.6	mg/kg dry	20	01/21/2016	01/22/2016 11:31	EPA 8082A	D
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
<b>Total PCBs</b>	<b>30</b>	0.0094	0.13	mg/kg dry	1	01/21/2016	01/21/2016 23:12	EPA 8082A	
Surrogate: Decachlorobiphenyl			86.8 %	66.3-138		01/21/2016	01/21/2016 23:12	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			92.0 %	61.6-142		01/21/2016	01/21/2016 23:12	EPA 8082A	

**Classical Chemistry Parameters**

**Preparation Batch: A601054**

<b>% Solids</b>	<b>78.3</b>		0.00	% by Weight	1	01/21/2016	01/22/2016 09:59	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 A601053 - EPA 3570**

<b>Blank (A601053-BLK1)</b>		Prepared: 01/21/2016 Analyzed: 01/21/2016 20:19								
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	0.251		mg/kg wet	0.2400		105	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.254		mg/kg wet	0.2400		106	61.6-142			

<b>LCS (A601053-BS1)</b>		Prepared: 01/21/2016 Analyzed: 01/21/2016 20:43								
PCB-1254	1.88	0.10	mg/kg wet	2.000		94.2	74-128			
Surrogate: Decachlorobiphenyl	0.218		mg/kg wet	0.2400		90.7	66.3-138			
Surrogate: Tetrachloro-meta-xylene	0.219		mg/kg wet	0.2400		91.1	61.6-142			

<b>Matrix Spike (A601053-MS1)</b>		<b>Source: A160409-03</b>		Prepared: 01/21/2016 Analyzed: 01/22/2016 10:41								
PCB-1254	74.1	6.9	mg/kg dry	2.747	68.5	201	50.3-155			M1, D		
Surrogate: Decachlorobiphenyl	0.288		mg/kg dry	0.3297		87.2	66.3-138					
Surrogate: Tetrachloro-meta-xylene	0.302		mg/kg dry	0.3297		91.5	61.6-142					

<b>Matrix Spike Dup (A601053-MSD1)</b>		<b>Source: A160409-03</b>		Prepared: 01/21/2016 Analyzed: 01/22/2016 11:06								
PCB-1254	80.2	6.9	mg/kg dry	2.747	68.5	424	50.3-155	71.2	20	M1, D		
Surrogate: Decachlorobiphenyl	0.314		mg/kg dry	0.3297		95.3	66.3-138					
Surrogate: Tetrachloro-meta-xylene	0.340		mg/kg dry	0.3297		103	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 A601054 - % Solids**

<b>Duplicate (A601054-DUP1)</b>	<b>Source: A160409-01</b>	Prepared: 01/21/2016	Analyzed: 01/22/2016 09:59		
% Solids	77.1	0.00 % by Weight	74.5	3.47	20





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Project Number: WI001368.0034  
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### Notes and Definitions

- M1 Spike recoveries were not evaluated because of elevated levels of the spiked analyte in the parent sample.
- D Data reported from a dilution
- 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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
 Phone: 708.534.5200 Fax: 708.534.5211

221 8700

Report To (optional)  
 Contact: Alina Sarkoski  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

Bill To (optional)  
 Contact: Alina Sarkoski  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 PO#/Reference# \_\_\_\_\_

## Chain of Custody Record

Lab Job #: A160409  
 Chain of Custody Number: \_\_\_\_\_  
 Page 1 of 1  
 Temperature °C of Cooler: \_\_\_\_\_

Client		Client Project #		Preservative		Parameter		Matrix		Comments	
<u>mkc</u>				<u>X</u>				<u>PCBs</u>			
Project Name		Lab Project #		Date		Time		# of Containers		Matrix	
<u>Bike Path</u>											
Project Location/State		Lab PM		Date		Time		# of Containers		Matrix	
<u>MADISON, WI</u>											
Sampler		Lab PM		Date		Time		# of Containers		Matrix	
<u>A Sarkoski</u>											
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix					
		<u>BP-SIDE-45</u>	<u>1/21/16</u>	<u>1400</u>	<u>X</u>	<u>S</u>	<u>X</u>				<u>01</u>
		<u>BP-BOT-46</u>	<u>1/21/16</u>	<u>1405</u>	<u>X</u>	<u>S</u>	<u>X</u>				<u>02</u>
		<u>BP-SIDE-47</u>	<u>1/21/16</u>	<u>1415</u>	<u>X</u>	<u>S</u>	<u>X</u>				<u>03</u>
		<u>BP-SIDE-48</u>	<u>1/21/16</u>	<u>1420</u>	<u>X</u>	<u>S</u>	<u>X</u>				<u>04</u>
<u>Ⓢ time added per Alina j 01-21-16</u>											

- Preservative Key
1. HCL, Cool to 4°
  2. H2SO4, Cool to 4°
  3. HNO3, Cool to 4°
  4. NaOH, Cool to 4°
  5. NaOH/Zn, Cool to 4°
  6. NaHSO4
  7. Cool to 4°
  8. None
  9. Other

Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other

Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <u>Alina Sarkoski</u>	Company <u>mkc</u>	Date <u>1/21/16</u>	Time <u>1500</u>	Received By <u>Mindi</u>	Company <u>ECS/PACE</u>	Date <u>01/21/16</u>	Time <u>500</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: \_\_\_\_\_  
 Shipped: \_\_\_\_\_  
 Hand Delivered: \_\_\_\_\_

Matrix Key

- |                    |                     |
|--------------------|---------------------|
| WW - Wastewater    | SE - Sediment       |
| W - Water          | SO - Soil           |
| S - Soil           | L - Leachate        |
| SL - Sludge        | WI - Wipe           |
| MS - Miscellaneous | DW - Drinking Water |
| OL - Oil           | O - Other           |
| A - Air            |                     |

Client Comments: \_\_\_\_\_

Lab Comments: \_\_\_\_\_