TRC
Results you can rely on

TRANSMITTAL LETTER

TRC
708 Heartland Trail Suite 3000
Madison, WI 53717
Telephone 608-826-3600
Fax 608-826-3941

To:	Michael Schmoller Project Manager Wisconsin Department of Natural Resources South Central Region 3911 Fish Hatchery Road Fitchburg, WI 53711	**Date:** **Project No:** **Project Name:**	July 23, 2018 268304 Madison-Kipp Corporation Rain Garden Excavation and Restoration Remedial Action Documentation Report BRRTS No. 02-13-562649

Via [X] *EMail* [ ] *Courier* [ ] *Overnight* [ ] *Pick-up* [ ] *Hand Delivered*

We are enclosing the following:

[ ] Shop Drawings [ ] Prints [ ] Plans [ ] Specifications

[ ] Copy of Letter [ ] Change Order [ ] Permits [X] Report

COPIES	DATE	DESCRIPTION
1	7/23/2018	Rain Garden Excavation and Restoration – Remedial Action Documentation Report

[ ] For your approval [ ] For your review and comment [ ] Returned for corrections

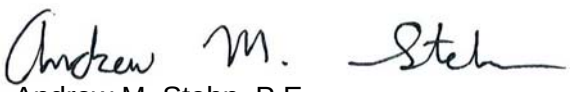
[X] For your use [ ] Approved as submitted [ ] Resubmit ____ copies for approval

[ ] As requested [ ] Approved as noted [ ] Return ____ corrected prints

Enclosed is an electronic copy of the Rain Garden Excavation and Restoration – Remedial Action Documentation Report for the Madison-Kipp Corporation.

Please contact me at 608-826-3665 if you have any questions.

Sincerely,



Andrew M. Stehn, P.E.
Project Engineer

cc: Tony Koblinski – Madison-Kipp Corporation (electronic)
John Hausbeck – Pubic Health (electronic)

\\ntapb-madison\msn-vol6\-\WPMSN\PJT2\268304\0000\L2683040000P-011.doc

Remedial Action Documentation Report – Rain Garden Excavation and Restoration

Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Facility ID No. 113125320
BRRTS No. 02-13-562649

July 2018

Andrew Stehn, P.E.
Senior Project Engineer

Katherine A. Vater, P.E.
Project Manager

Table of Contents

1. Introduction 1
   - 1.1 Site Background 1
   - 1.2 Purpose and Scope 1

2. Storm Sewer Cleaning and Repair 2
   - 2.1 Storm Sewer Cleaning 2
   - 2.2 Storm Sewer Repairs 2

3. Rain Garden Excavation and Restoration 4
   - 3.1 Rain Garden Excavation 4
   - 3.2 Rain Garden Restoration 5

4. Conclusions and Recommendations 6
   - 4.1 Conclusions 6
   - 4.2 Recommendations 6

5. References 7

List of Tables

Table 1	Storm Sewer Cleaning Water Analytical Results Summary – June 2018
Table 2	Confirmation Sampling - Soil Analytical Results Summary Table – June 2018

List of Figures

Figure 1	Site Location Map
Figure 2	Storm Sewer Infrastructure Map
Figure 3	Rain Garden Excavation and Restoration Map

List of Appendices

Appendix A	Laboratory Analytical Reports – Cleaning/Containerized Rain Water
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports – Rain Garden Confirmation Samples

Section 1
Introduction

TRC Environmental Corp. (TRC), on behalf of Madison-Kipp Corp. (MKC), is reporting on the remedial action completed to remove polychlorinated biphenyl-PCB impacted material from the storm sewer network and rain garden at MKC's facility at 201 Waubesa Street, Madison, Wisconsin (Site) (Figure 1).

1.1 Site Background

Since December 2016 TRC, on behalf of MKC, has completed further investigative and remedial action work to evaluate and eliminate sources potentially causing PCB-impacts to the rain garden. In June and September 2017 and May 2018, soil samples collected from the outfall pipe area into the rain garden contained PCBs above the industrial direct contact residual contaminant level (RCL).

A detailed summary of the site investigative work and remedial actions completed through May 2018 are included in the Polychlorinated Biphenyls (PCBs) in Rain Garden – Investigative Actions Summary Letter submitted in March 2017 (TRC 2017a), Remedial Action Documentation Report – Storm Sewer Investigation and Rain Garden Restoration Report submitted in July 2017 (TRC 2017b), Rain Garden – Interim Investigation Report and Proposed Excavation Work Plan submitted in November 2017 (TRC 2017c), and Polychlorinated Biphenyls (PCBs) in Rain Garden – Interim Investigative Summary Follow-up submitted in June 2018 (TRC 2018a).

1.2 Purpose and Scope

Based on the presence of PCB impacted soil within the immediate outfall area, as sampled in June and September 2017 and May 2018, MKC proposed to complete an excavation to remove the material (TRC 2017c). This report documents the excavation and restoration of the rain garden as proposed in November 2017 and completed in June 2018. Concurrent with the work one section of the storm sewer network was cleaned and repaired, and that work is also documented in this report.

Section 2
Storm Sewer Cleaning and Repair

2.1 Storm Sewer Cleaning

As discussed in the PCBs in Rain Garden – Interim Investigative Summary Follow-up Letter (TRC 2018a), sediment monitoring results between June 2017 and May 2018 indicated that sediment accumulated in manhole MH-1A contained low-level PCBs (below the industrial direct contact RCL) and the outfall area contained concentrations above the industrial direct contact soil RCL for total PCBs. Based on the conclusions of the Summary Follow-up Letter (TRC 2018a), a cleaning of the storm sewer section between manhole MH-1A and the outfall was added to the June 2018 mobilization for the rain garden excavation. This section of sewer is identified as the northern portion of Pipe Section S-2 on Figure 2.

On June 20, 2018, Covanta Environmental Solutions (Covanta) and VS Water Blasting (VS) were on Site to flush out and clean the section of storm sewer between manhole structure MH-1A and the outfall area. One cleaning pass was made from the outfall point up to MH-1A but due to heavy precipitation, the vacuum box quickly filled up which halted the cleaning process. A second vacuum box was obtained and on June 21, 2018 Covanta pumped additional water and sediment from the outfall area and approximately the first 30 feet into the storm sewer pipe. Following this second day of pumping, a visible amount of sediment was still present within the last approximately 30 feet of pipe where a sag is present. VS remobilized to the site and completed multiple cleaning passes to remove the observed sediment.

In total, four vacuum boxes were filled with cleaning water, rain water, and sediment. The water/sediment was sampled for waste characterization and disposed by Covanta. Table 1 includes a summary of the four samples collected and the laboratory analytical reports are included in Appendix A.

2.2 Storm Sewer Repairs

After VS completed the final removal of the visible sediment, an approximately 4-inch separation between two sections of storm sewer pipe near the outfall area was observed. The last section of the concrete pipe pulled away from the adjoining section and a repair was needed to ensure continuity of the storm sewer.

The bottom and side portions of the pipes were sealed from the interior with hydraulic cement. The top portion of the pipes were excavated for access to make repairs. The total depth of excavation was 12- to 18-inches, and the area of excavation was approximately 24-inches by 36-inches. To repair the top portion of the pipes, a spacer was added to bridge the gap between the pipe and concrete was used to reseal the pipes/spacer. The area was backfilled with imported topsoil following the repairs and the excavated soil was containerized for disposal.

Section 3
Rain Garden Excavation and Restoration

The excavation and restoration of the outfall area was completed between June 20 and June 22, 2018. The excavation was completed within the proposed limits outlined in the Work Plan (TRC 2017c). Confirmation sampling was completed following the excavation work. The following section describes the excavation and restoration.

3.1 Rain Garden Excavation

TRC and SGS Environmental Contracting were on Site between June 20 and 22, 2018 to complete the excavation and restoration process. Dust monitoring was conducted during the work. A photographic log of the work is included in Appendix B.

Due to heavy rain precipitation prior to and during the remedial action, water within the garden required removal. On June 25, 2018, TRC submitted a memorandum that outlined the management of the storm water during the excavation and storm sewer cleaning process (TRC 2018b). Overall water from the cleaning process and within the excavation limits and fifteen feet northeast was containerized for disposal by Covanta and any water further east was pumped through as sediment bag discharging to the central/eastern portion of the garden.

Once the water was removed, TRC and SGS proceeded with the excavation of PCB-impacted soil in the rain garden. The excavation was started at the southwest limits near the outfall pipe and proceeded to the east-northeast to the proposed excavation limits. The limits of the excavation are shown on Figure 3.

- The base of the excavation was completed to at least one foot below ground surface (bgs), focusing on the areas where newly deposited sediment was present.
- In general, topsoil and organic materials was present along with some clay. Newly deposited sediment was evident in the immediate outfall area and was removed.
- Light to medium brown fine-grained sand was generally observed below one foot, with some areas containing clay.
- The excavated soil and organic material was containerized in roll-off containers provided by Covanta.

After the excavation work was completed, TRC collected confirmation samples from the side walls and base of the excavation. Eight confirmation soil samples were collected (Sample ID: S1-18 through S8-18) from the base and sidewalls of the excavation limits. The sidewall samples

consisted of soil collected from ground surface to approximately one-foot bgs. The samples were submitted to PACE Analytical for analysis for PCBs. PACE reported results for the eight samples on June 21, 2018. The data is summarized in Table 2 and laboratory analytical reports are included in Appendix C.

The confirmation samples confirmed that soil at the limits of the excavation contained PCB concentrations below the industrial direct contact RCL of 0.967 mg/kg.

18.54 tons of soil was removed from the rain garden and disposed by Covanta.

3.2 Rain Garden Restoration

Following the excavation, the rain garden was restored in-kind using Purple Cow Top Soil. A sample of the imported top soil was collected and analyzed for PCBs, results are summarized in Table 2 and the laboratory report is included in Appendix C. Landscaping restoration will be completed in the near future.

During placement of the topsoil for restoration, the pitch of the garden was graded from the outfall area toward the steel fence (located near the middle of the garden). This grading should allow water to drain better away from the outfall pipe and toward the middle of the garden.

Section 4
Conclusions and Recommendations

4.1 Conclusions

Soil with PCB concentrations exceeding the WDNR industrial direct contact RCL of 0.967 mg/kg in the rain garden was removed in June 2018. Approximately 18.54 tons of soil were hauled offsite and disposed by Covanta. The excavated area of the rain garden was restored will topsoil and will be replanted.

In addition, the pipe segment between MH-1A and the outfall was thoroughly cleaned and the separation between the last two sections of the outfall pipe was repaired.

4.2 Recommendations

MKC will continue monitoring MH-1A and the outfall area for solids/sediment. The two locations will be checked periodically through the remainder of 2018. The frequency of monitoring will be dependent on high intensity rain events (greater than one inch of rainfall accumulation in a 24-hour period). Following large rain events, TRC will visit the Site and observe the conditions in the outfall area/pipe and manhole MH-1A. A sample of sediment will be collected from each location, if present, quarterly (one in the period July – September and one in the period October – December) and analyzed for total PCBs.

TRC will also remove accumulated sediment from MH-1A to reduce the amount of sediment discharging into the rain garden. Accumulated sediment will be removed with dedicated equipment (e.g., wet/dry vacuum) or other hand tools and containerized for disposal.

The monitoring results will be tabulated upon completion of the 2018 monitoring and provided to the WDNR. In the event a sample contains PCBs above the NR 720 industrial direct contact RCL for total PCBS, the WDNR will be notified upon receipt of the laboratory analytical data.

Section 5
References

TRC. 2017a. Polychlorinated Biphenyls (PCBs) in Rain Garden – Investigative Actions Summary. March 27, 2017.

TRC. 2017b. Remedial Action Documentation Report – Storm Sewer Investigation and Rain Garden Restoration. July 11, 2017.

TRC. 2017c. Rain Garden – Interim Investigation Report and Proposed Excavation Work Plan. November 29, 2017.

TRC. 2018a. Polychlorinated Biphenyls (PCBs) in Rain Garden – Interim Investigative Summary Follow-up. June 18, 2018.

TRC. 2018b. Status of Rain Garden Excavation and Storm Water Management. Madison-Kipp Corporation. July 25, 2018.

Table 1
Storm Sewer Cleaning Water Analytical Results Summary – June 2018
Madison-Kipp Corporation
201 Waubesa Street, Madison, Wisconsin

PARAMETER	UNIT	SAMPLE LOCATION AND DATE			
		V227 6/20/2018	V-292 6/21/2018	V227-2 6/22/2018	V292-2 6/22/2018
PCB-1016	µg/L	<0.035	<0.035	<0.035	<0.035
PCB-1221	µg/L	<0.020	<0.020	<0.020	<0.020
PCB-1232	µg/L	<0.037	<0.037	<0.037	<0.037
PCB-1242	µg/L	<0.038	<0.038	<0.038	<0.038
PCB-1248	µg/L	0.20	0.44	0.077 J	0.083 J
PCB-1254	µg/L	<0.0090	<0.0090	<0.0090	<0.0090
PCB-1260	µg/L	<0.025	<0.025	<0.025	<0.025
Total PCBs	µg/L	0.20 J	0.44	0.077 J	0.083 J

Notes:

Created by: C. Olson 7/6/2018

PCBs = Poly-Chlorinated Biphenyls

Checked by: A. Schroeder 7/16/2018

µg/L = Micrograms per liter

< = Less than

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

Footnotes:

(1) The samples collected are representative of the water/solids mixture generated from the storm sewer cleaning process completed on June 20-22, 2018, and are used for waste characterization purposes.

Table 2
Confirmation Sampling – Soil Analytical Results Summary Table – June 2018
Madison-Kipp Corporation
201 Waubesa Street, Madison, Wisconsin

PARAMETER	UNIT	NR 720 RCL		SAMPLE LOCATION AND DATE								
		INDUSTRIAL DIRECT CONTACT[1]	HISTORICAL INDUSTRIAL DIRECT CONTACT[2]	TOPSOIL 6/22/2018	S1-18 6/20/2018	S2-18 6/20/2018	S3-18 6/20/2018	S4-18 6/20/2018	S5-18 6/20/2018	S6-18 6/20/2018	S7-18 6/20/2018	S8-18 6/20/2018
PCB-1016	mg/kg	28	21.2	<0.010	<0.011	<0.0094	<0.010	<0.011	<0.011	<0.0088	<0.0098	<0.0087
PCB-1221	mg/kg	0.883	0.589	<0.0056	<0.0060	<0.0052	<0.0057	<0.0064	<0.0062	<0.0049	<0.0054	<0.0048
PCB-1232	mg/kg	0.792	0.589	<0.0038	<0.0041	<0.0036	<0.0039	<0.0043	<0.0042	<0.0033	<0.0037	<0.0033
PCB-1242	mg/kg	0.972	0.744	<0.0060	<0.0064	<0.0056	<0.0061	<0.0068	<0.0067	<0.0052	<0.0058	<0.0052
PCB-1248	mg/kg	0.975	0.744	<0.0073	0.034 J	0.17	0.11 J	0.080 J	0.054 J	0.14	0.042 J	0.18
PCB-1254	mg/kg	0.988	0.744	<0.0060	0.046 J	<0.0056	<0.0061	<0.0068	<0.0067	0.076 J	<0.0058	<0.0052
PCB-1260	mg/kg	1	0.744	<0.0033	<0.0035	<0.0031	<0.0033	<0.0037	<0.0036	<0.0029	<0.0032	<0.0028
Total PCBs	mg/kg	0.967	0.744	<0.010	0.080 J	0.17	0.11 J	0.080 J	0.054 J	0.22	0.042 J	0.18

Notes:

Created by: C. Olson 7/6/2018

Checked by: A. Schroeder 7/16/2018

RCL = Residual Contaminant Level

PCBs = Polychlorinated Biphenyls

mg/kg = Milligrams per kilogram

< = Less than

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

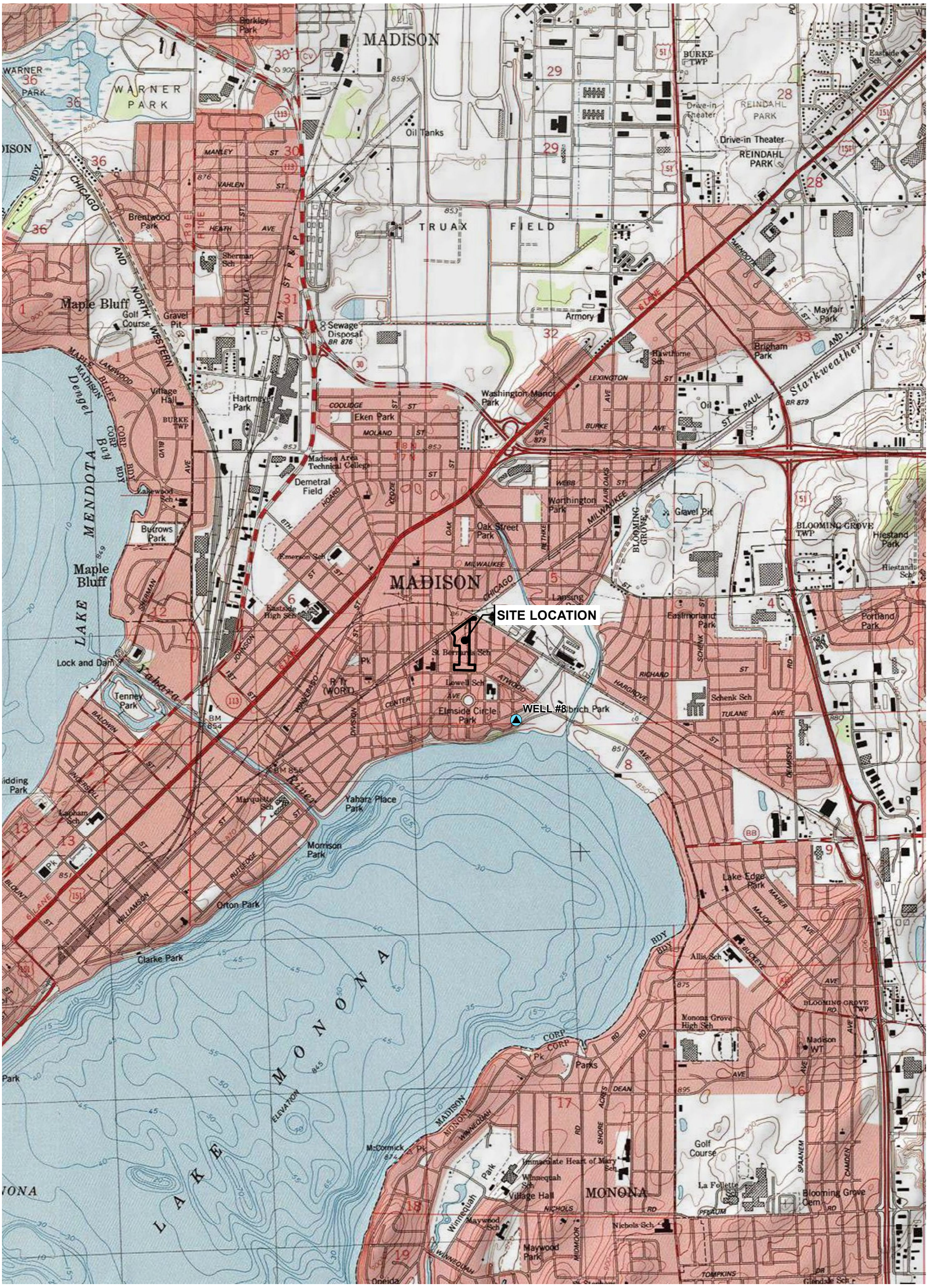
WDNR = Wisconsin Department of Natural Resources

Bold and Italics = Historical WDNR Industrial Direct Contact Limit Exceedance

Footnotes:

(1) As of March 2017, the WDNR updated the industrial direct contact RCLs for total PCBs and specific Aroclors.

(2) The confirmation samples for the rain garden excavation were compared to the industrial direct contact RCLs, as approved by the WDNR.



LEGEND

SITE PROPERTY BOUNDARY

MUNICIPAL SUPPLY WELL

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, "USA TOPO MAPS" WEB BASEMAP SERVICE LAYER.

0 2,000 4,000 FEET

1 " = 2,000 '
1:24,000

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
SITE LOCATION MAP

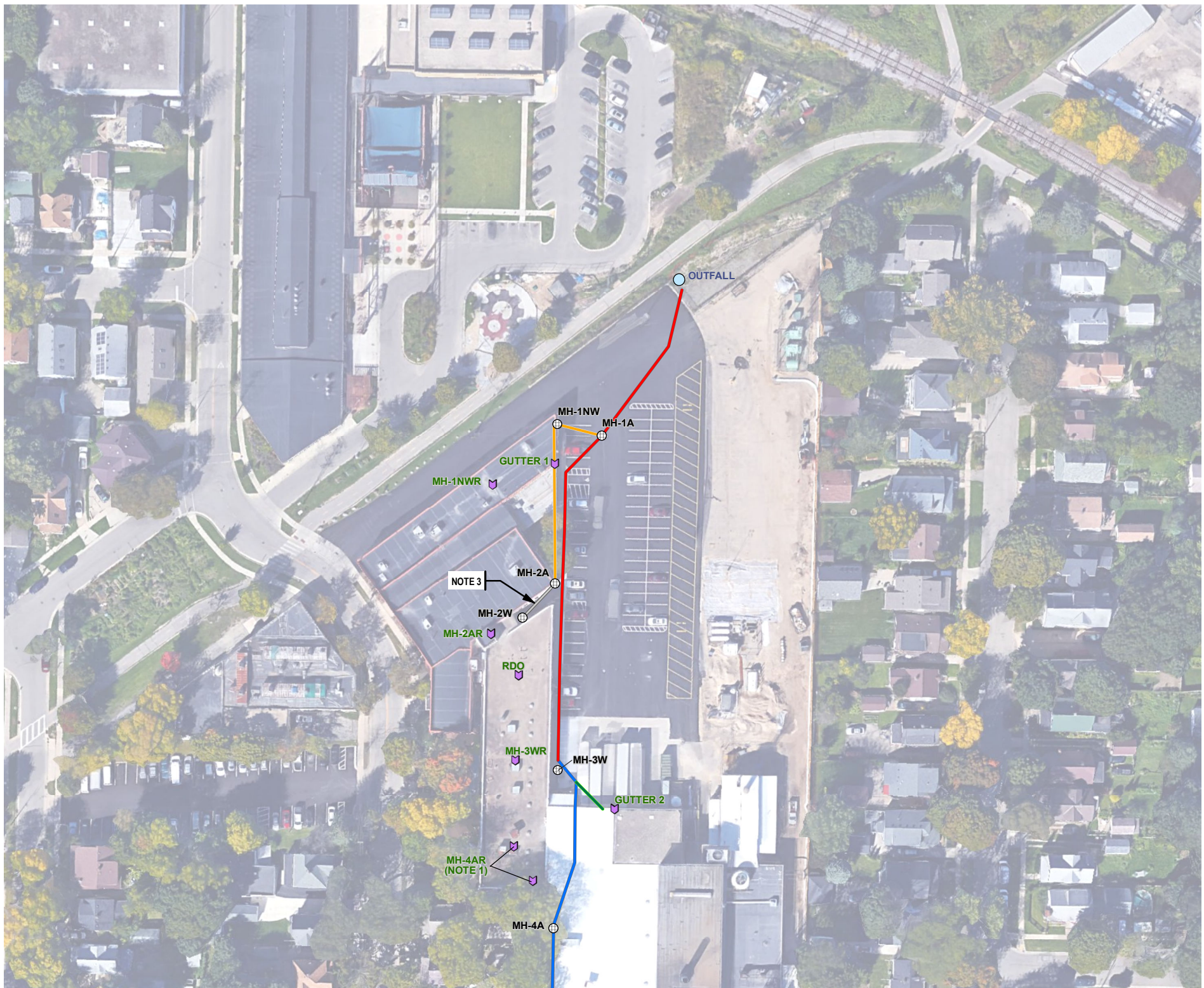
DRAWN BY:	A. ADAIR
CHECKED BY:	A. STEHN
APPROVED BY:	K. VATER
DATE:	JULY 2018
PROJ. NO.:	268304
FILE:	268304-001slm.mxd

FIGURE 1

Plot Date: 7/20/2018, 09:54:01 AM by AADAIR -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2016_268304\268304-015.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



NOTES

1. MH-4AR REPRESENTS TWO COLLECTION POINTS THAT MERGE INTO ONE DISCHARGE POINT.
2. MH-5AH REPRESENTS A DISCHARGE PIPE LOCATED IN MANHOLE MH-5A, BOTH ABANDONED IN 2017.
3. MH-2W AND THE SECTION OF PIPE BETWEEN MH-2W AND MH-2A WERE ABANDONED IN 2017.
4. BASEMAP FROM GOOGLE EARTH PRO & PARTNERS, 2014.

LEGEND

- SITE PROPERTY BOUNDARY
- ROOF DRAIN INLET
- MANHOLE/CATCH BASIN
- OUTFALL
- S-1 PIPE SECTION
- S-2 PIPE SECTION
- S-3 PIPE SECTION
- S-3-ABANDONED (NOTE 3)
- S-4 PIPE SECTION

0 100 200 FEET

1 " = 100 '
1:1,200

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
SITE MAP AND STORM SEWER INFRASTRUCTURE

DRAWN BY:	J. PAPEZ
CHECKED BY:	A.STEHN
APPROVED BY:	K.VATER
DATE:	JULY 2018
PROJ. NO.:	268304
FILE:	268304-015.mxd

FIGURE 2

LEGEND

- EXCAVATION AREA - JUNE 2018
- EXCAVATION AREA - MAY 2017
- SOIL COVER - JUNE 2017
- CONFIRMATION SAMPLE LOCATION (<0.967 MG/KG)
- STORM SEWER S-2
- COMMUNICATION (FIBER OPTIC)
- GAS LINE
- RIGHT-OF-WAY LINE

LABEL FORMAT

SAMPLE ID
[TOTAL PCBs RESULT - mg/kg] - JUNE 2018
J= ESTIMATED VALUE. ANALYTE DETECTED AT A LEVEL LESS THAN REPORTING LIMIT AND GREATER THAN OR EQUAL TO THE DETECTION LIMIT.

NOTES

1. BASE MAP IMAGERY FROM NEARMAP, 4/24/2017.
2. CONFIRMATION SAMPLES WERE ANALYZED FOR POLYCHLORINATED BIPHENYLS (PCBs) USING EPA METHOD 8082. THE CONCENTRATIONS SHOWN REPRESENT TOTAL CONCENTRATION OF PCBs.
3. EXCAVATION WORK WAS COMPLETED ON JUNE 20, 2018.

N

0 10 20 Feet

1 " = 10 '
1:120

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
RAIN GARDEN EXCAVATION AND RESTORATION MAP

DRAWN BY:	A. ADAIR	PROJ NO.:	268304
CHECKED BY:	A.STEHN		
APPROVED BY:	K.VATER		**FIGURE 3**
DATE:	JULY 2018		

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

FILE NO.: 268304-018.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
Plot Date: 7/20/2018, 09:56:34 AM by AADAIR -- LAYOUT: ANSI B (11"x17")
Path: E:\Madison\KIPPCorp\2016_268304\268304-018.mxd

Appendix A
Laboratory Analytical Reports – Cleaning/Containerized Rain Water

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 20, 2018

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

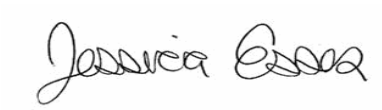
RE: Madison Kipp Corporation

Enclosed are the analytical results for the samples received by the laboratory on 06/20/2018.

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			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2019
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2019
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2019
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V227	A182508-01	Water	06/20/2018	06/20/2018

CASE NARRATIVE

Sample Receipt Information:
1 sample was received on 06/20/2018. Sample was received on ice. Sample was received in acceptable condition.

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

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation
Project Number: 268304
Project Manager: Andrew Stehn

V227

A182508-01 (Water)

Date Sampled
06/20/2018 11:00

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch: A806212**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1248	**0.20**	0.020	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	
Total PCBs	**0.20**	0.038	0.25	ug/L	1	06/20/2018	06/20/2018 14:31	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*102 %*	*59.9-118*		*06/20/2018*	*06/20/2018 14:31*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*105 %*	*72.5-127*		*06/20/2018*	*06/20/2018 14:31*	*EPA 8082A*	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806212 - EPA 3511										
Blank (A806212-BLK1)				Prepared: 06/20/2018 Analyzed: 06/20/2018 13:44						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Tetrachloro-meta-xylene	*0.680*		*ug/L*	*0.7500*		*90.6*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.714*		*ug/L*	*0.7500*		*95.3*	*72.5-127*			
LCS (A806212-BS1)				Prepared: 06/20/2018 Analyzed: 06/20/2018 13:19						
PCB-1016	12.3	0.13	ug/L	12.50		98.0	70-130			
PCB-1260	12.5	0.13	ug/L	12.50		100	70-130			
Surrogate: Tetrachloro-meta-xylene	*0.706*		*ug/L*	*0.7500*		*94.2*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.752*		*ug/L*	*0.7500*		*100*	*72.5-127*			
Matrix Spike (A806212-MS1)	**Source: A182508-01**			Prepared: 06/20/2018 Analyzed: 06/20/2018 14:56						
PCB-1016	13.4	0.13	ug/L	12.50	ND	107	60-140			
PCB-1260	13.7	0.13	ug/L	12.50	ND	110	60-140			
Surrogate: Tetrachloro-meta-xylene	*0.762*		*ug/L*	*0.7500*		*102*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.804*		*ug/L*	*0.7500*		*107*	*72.5-127*			
Matrix Spike Dup (A806212-MSD1)	**Source: A182508-01**			Prepared: 06/20/2018 Analyzed: 06/20/2018 15:21						
PCB-1016	13.0	0.13	ug/L	12.50	ND	104	60-140	3.49	20	
PCB-1260	13.6	0.13	ug/L	12.50	ND	109	60-140	0.931	20	
Surrogate: Tetrachloro-meta-xylene	*0.745*		*ug/L*	*0.7500*		*99.3*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.833*		*ug/L*	*0.7500*		*111*	*72.5-127*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

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

Pace Analytical
ECCS Mobile Lab Services

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 09419 Page: 1 of: 1

Lab Work Order #: A182508

Project Number: 268304 PO Number:
Project Name: Madison Kipp Corporation
Project Location (City, State): Madison, WI
Turn Around (check one): ☐ Normal ☒ Rush 24-hr
If Rush, Report Due Date:
Sampled By (Print): Andrew Stehn

Report To: Andrew Stehn
Company: TRC
Address 1: 708 Heartland Trail, Suite 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trcsolutions.com
Invoice To: apinvoice@trcsolutions.com
Company: TRC approval
Address 1: -
Address 2: -

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: A	PCB 8082	Comments	Lab ID	Lab Receipt Time
V227	6/20/18	11:00	W	4				01	
~~S1-18~~ AMS									
~~S2-18~~									
~~S3-18~~									
~~S4-18~~									
~~S5-18~~									
~~S6-18~~									
~~S7-18~~									
~~S8-18~~									
~~TS-2018~~									

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
(TRC)	6/20/18	11:20	Brandon Bongolt	6/20/18	11:43
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: On ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 22, 2018

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

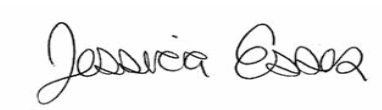
RE: Madison Kipp Corporation

Enclosed are the analytical results for the samples received by the laboratory on 06/21/2018.

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			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2019
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2019
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2019
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V-292	A182514-01	Water	06/21/2018	06/21/2018

CASE NARRATIVE

Sample Receipt Information:
1 sample was received on 06/21/2018. Sample was received on ice. Sample was received in acceptable condition.

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

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation
Project Number: 268304
Project Manager: Andrew Stehn

V-292

A182514-01 (Water)

Date Sampled
06/21/2018 13:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806230**		
PCB-1016	ND	0.035	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1248	**0.44**	0.020	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
Total PCBs	**0.44**	0.038	0.25	ug/L	1	06/21/2018	06/21/2018 17:14	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*90.7 %*	*59.9-118*		*06/21/2018*	*06/21/2018 17:14*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*97.7 %*	*72.5-127*		*06/21/2018*	*06/21/2018 17:14*	*EPA 8082A*	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806230 - EPA 3511										
Blank (A806230-BLK1)				Prepared: 06/21/2018 Analyzed: 06/21/2018 15:55						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Tetrachloro-meta-xylene	*0.792*		*ug/L*	*0.7500*		*106*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.867*		*ug/L*	*0.7500*		*116*	*72.5-127*			
LCS (A806230-BS1)				Prepared: 06/21/2018 Analyzed: 06/21/2018 15:15						
PCB-1016	13.9	0.13	ug/L	12.50		111	70-130			
PCB-1260	14.2	0.13	ug/L	12.50		113	70-130			
Surrogate: Tetrachloro-meta-xylene	*0.828*		*ug/L*	*0.7500*		*110*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.886*		*ug/L*	*0.7500*		*118*	*72.5-127*			
Matrix Spike (A806230-MS1)	**Source: A182514-01**			Prepared: 06/21/2018 Analyzed: 06/21/2018 18:32						
PCB-1016	11.2	0.13	ug/L	12.50	ND	89.9	60-140			
PCB-1260	11.8	0.13	ug/L	12.50	ND	94.3	60-140			
Surrogate: Tetrachloro-meta-xylene	*0.635*		*ug/L*	*0.7500*		*84.7*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.700*		*ug/L*	*0.7500*		*93.3*	*72.5-127*			
Matrix Spike Dup (A806230-MSD1)	**Source: A182514-01**			Prepared: 06/21/2018 Analyzed: 06/21/2018 18:57						
PCB-1016	11.0	0.13	ug/L	12.50	ND	88.2	60-140	1.94	20	
PCB-1260	11.5	0.13	ug/L	12.50	ND	92.0	60-140	2.45	20	
Surrogate: Tetrachloro-meta-xylene	*0.617*		*ug/L*	*0.7500*		*82.3*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.682*		*ug/L*	*0.7500*		*90.9*	*72.5-127*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

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

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 8312 Page: 1 of: 1

Lab Work Order #: A182514

Project Number: 268304 PO Number:
Project Name: MKC Rah Garden
Project Location (City, State): Madison, WI
Turn Around (check one): ☐ Normal ☒ Rush 24 hr
If Rush, Report Due Date:
Sampled By (Print): Andrew Stehn

Report To: Andrew Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address: astehn@trcsolutions

Invoice To: Andrew Stehn
Company: TRC
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes	Analyses Requested: A	Comments	Lab ID	Lab Receipt Time
V-292	6/21/18	13:00	WT SW	5	X			01	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By: Andrew Stehn (TRC)	6/21/18	18:31	Received By: Kari-Ann Killin	6/21/18	1408
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☐ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 25, 2018

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

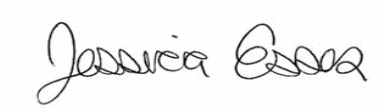
RE: Madison Kipp Corporation

Enclosed are the analytical results for the samples received by the laboratory on 06/22/2018.

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			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2019
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2019
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2019
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2019
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V227-2	A182526-01	Water	06/22/2018	06/22/2018
V292-2	A182526-02	Water	06/22/2018	06/22/2018

CASE NARRATIVE

Sample Receipt Information:
2 samples were received on 06/22/2018. 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.

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

V227-2

A182526-01 (Water)

Date Sampled
06/22/2018 17:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806235**		
PCB-1016	ND	0.035	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
PCB-1248	**0.077**	0.020	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	J
PCB-1254	ND	0.0090	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	
Total PCBs	**0.077**	0.038	0.25	ug/L	1	06/22/2018	06/22/2018 19:44	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*88.4 %*	*59.9-118*		*06/22/2018*	*06/22/2018 19:44*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*97.5 %*	*72.5-127*		*06/22/2018*	*06/22/2018 19:44*	*EPA 8082A*	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

V292-2

A182526-02 (Water)

Date Sampled
06/22/2018 17:05

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch: A806235**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
PCB-1248	**0.083**	0.020	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	J
PCB-1254	ND	0.0090	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	
Total PCBs	**0.083**	0.038	0.25	ug/L	1	06/22/2018	06/22/2018 20:09	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*85.6 %*	*59.9-118*		*06/22/2018*	*06/22/2018 20:09*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*94.0 %*	*72.5-127*		*06/22/2018*	*06/22/2018 20:09*	*EPA 8082A*	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806235 - EPA 3511										
Blank (A806235-BLK1)				Prepared: 06/22/2018 Analyzed: 06/22/2018 15:47						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Tetrachloro-meta-xylene	*0.781*		*ug/L*	*0.7500*		*104*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.825*		*ug/L*	*0.7500*		*110*	*72.5-127*			
LCS (A806235-BS1)				Prepared: 06/22/2018 Analyzed: 06/22/2018 15:02						
PCB-1016	14.1	0.13	ug/L	12.50		113	70-130			
PCB-1260	14.2	0.13	ug/L	12.50		114	70-130			
Surrogate: Tetrachloro-meta-xylene	*0.818*		*ug/L*	*0.7500*		*109*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.833*		*ug/L*	*0.7500*		*111*	*72.5-127*			
Matrix Spike (A806235-MS1)	**Source: A182526-02**			Prepared: 06/22/2018 Analyzed: 06/22/2018 20:34						
PCB-1016	12.9	0.13	ug/L	12.50	ND	103	60-140			
PCB-1260	13.3	0.13	ug/L	12.50	ND	107	60-140			
Surrogate: Tetrachloro-meta-xylene	*0.746*		*ug/L*	*0.7500*		*99.4*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.791*		*ug/L*	*0.7500*		*105*	*72.5-127*			
Matrix Spike Dup (A806235-MSD1)	**Source: A182526-02**			Prepared: 06/22/2018 Analyzed: 06/22/2018 20:58						
PCB-1016	12.8	0.13	ug/L	12.50	ND	103	60-140	0.745	20	
PCB-1260	13.2	0.13	ug/L	12.50	ND	106	60-140	0.752	20	
Surrogate: Tetrachloro-meta-xylene	*0.693*		*ug/L*	*0.7500*		*92.5*	*59.9-118*			
Surrogate: Decachlorobiphenyl	*0.752*		*ug/L*	*0.7500*		*100*	*72.5-127*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

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

Pace Analytical
ECCS Mobile Lab Services

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 09423 Page: 1 of: 1

Lab Work Order #: A182526

Project Number: 268304 PO Number:
Project Name: MAC Rain Garden
Project Location (City, State): Madison, WI
Turn Around (check one): ☒ Normal Soil ☒ Rush 24 hr Water
If Rush, Report Due Date:
Sampled By (Print): ANDREW STEHN

Report To: ANDREW STEHN
Company: TRC
Address 1:
Address 2:
E-mail Address: astehn@trcsolutions

Invoice To: ANDREW STEHN
Company: TRC
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes	Analyses Requested: A						Comments	Lab ID	Lab Receipt Time
					PC135									
TopSoil	6/22/18	1501	S	1	X								—	
V227-2		1700	W	4	X								01	
V292-2	↓	1705	W	4	X								02	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: TRC Date: 6/22/18 Time:
Received By: Date: 06/22/18 Time: 1810
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: Once
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

Appendix B
Photographic Log

Photographic Log

Client Name:	Site Location:	Photographers:	Project No.:
Madison-Kipp Corporation (MKC) Rain Garden	Madison, WI	A. Stehn, A. Schroeder, B. Wachholz (TRC)	268304.0000.0000

Photo No.	Date
1	6/20/2018

Description
View of rain garden from MKC parking lot before excavation.

Photo facing north.

Photo No.	Date
2	6/20/2018

Description
View of rain garden and immediate surrounding area from MKC parking lot before excavation.

Photo facing northeast.

Photographic Log

Client Name:	Site Location:	Photographers:	Project No.:
Madison-Kipp Corporation (MKC) Rain Garden	Madison, WI	A. Stehn, A. Schroeder, B. Wachholz (TRC)	268304.0000.0000

Photo No.	Date
3	6/20/2018

Description
View of storm sewer outfall in rain garden after excavation.

Photo facing east.

Photo No.	Date
4	6/20/2018

Description
View of down-gradient portion of rain garden after excavation.

Photo facing northeast.

Photographic Log

Client Name:	Site Location:	Photographers:	Project No.:
Madison-Kipp Corporation (MKC) Rain Garden	Madison, WI	A. Stehn, A. Schroeder, B. Wachholz (TRC)	268304.0000.0000

Photo No.	Date
5	6/22/2018

Description
Separation in storm sewer pipe, found one pipe length from rain garden outfall.

North is up in the photo.

Photo No.	Date
6	6/22/2018

Description
Cement used to join and seal the outer portion of the storm sewer pipes that had been separated. The pipe was also sealed with hydraulic cement from the interior.

North is up in the photo.

Photographic Log

Client Name:	Site Location:	Photographers:	Project No.:
Madison-Kipp Corporation (MKC) Rain Garden	Madison, WI	A. Stehn, A. Schroeder, B. Wachholz (TRC)	268304.0000.0000

Photo No.	Date
7	6/22/2018

Description
View of rain garden while topsoil was placed.

Photo facing northeast.

Photo No.	Date
8	6/22/2018

Description
View of rain garden while topsoil was placed.

Photo facing northwest.

Photographic Log

Client Name:	Site Location:	Photographers:	Project No.:
Madison-Kipp Corporation (MKC) Rain Garden	Madison, WI	A. Stehn, A. Schroeder, B. Wachholz (TRC)	268304.0000.0000

Photo No.	Date
9	6/22/2018

Description
View of rain garden from MKC parking lot after topsoil and erosion control material was placed.

Photo facing north.

Photo No.	Date
10	6/22/2018

Description
View of rain garden and immediate surrounding areas from MKC parking lot after clean topsoil and erosion control material was placed.

Photo facing northeast.

Appendix C
Laboratory Analytical Reports – Rain Garden Confirmation Samples

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 21, 2018

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corporation

Enclosed are the analytical results for the samples received by the laboratory on 06/20/2018.

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
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2019
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2019
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2019
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1-18	A182513-01	Soil	06/20/2018	06/20/2018
S2-18	A182513-02	Soil	06/20/2018	06/20/2018
S3-18	A182513-03	Soil	06/20/2018	06/20/2018
S4-18	A182513-04	Soil	06/20/2018	06/20/2018
S5-18	A182513-05	Soil	06/20/2018	06/20/2018
S6-18	A182513-06	Soil	06/20/2018	06/20/2018
S7-18	A182513-07	Soil	06/20/2018	06/20/2018
S8-18	A182513-08	Soil	06/20/2018	06/20/2018

CASE NARRATIVE

Sample Receipt Information:
Eight samples were received on June 20, 2018. 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.

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

S1-18

A182513-01 (Soil)

Date Sampled
06/20/2018 16:15

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch: A806213**			
PCB-1016	ND	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	
PCB-1221	ND	0.0060	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	
PCB-1232	ND	0.0041	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	
PCB-1242	ND	0.0064	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	
PCB-1248	**0.034**	0.0077	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	J
PCB-1254	**0.046**	0.0064	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	J
PCB-1260	ND	0.0035	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	
Total PCBs	**0.080**	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 19:33	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*93.7 %*	*69.6-121*		*06/20/2018*	*06/20/2018 19:33*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*97.8 %*	*56.6-128*		*06/20/2018*	*06/20/2018 19:33*	*EPA 8082A*	
Classical Chemistry Parameters						**Preparation Batch: A806225**			
% Solids	**68.4**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

S2-18

A182513-02 (Soil)

Date Sampled
06/20/2018 16:20

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806213**		
PCB-1016	ND	0.0094	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1221	ND	0.0052	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1232	ND	0.0036	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1242	ND	0.0056	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1248	**0.17**	0.0068	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1254	ND	0.0056	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
PCB-1260	ND	0.0031	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
Total PCBs	**0.17**	0.0094	0.13	mg/kg dry	1	06/20/2018	06/20/2018 19:58	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*95.1 %*	*69.6-121*		*06/20/2018*	*06/20/2018 19:58*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*95.9 %*	*56.6-128*		*06/20/2018*	*06/20/2018 19:58*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A806225**		
% Solids	**78.4**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation
Project Number: 268304
Project Manager: Andrew Stehn

S3-18

A182513-03 (Soil)

Date Sampled
06/20/2018 16:30

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806213**		
PCB-1016	ND	0.010	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
PCB-1221	ND	0.0057	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
PCB-1232	ND	0.0039	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
PCB-1242	ND	0.0061	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
PCB-1248	**0.11**	0.0073	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	J
PCB-1254	ND	0.0061	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
PCB-1260	ND	0.0033	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	
Total PCBs	**0.11**	0.010	0.14	mg/kg dry	1	06/20/2018	06/20/2018 20:23	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*96.3 %*	*69.6-121*		*06/20/2018*	*06/20/2018 20:23*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*98.4 %*	*56.6-128*		*06/20/2018*	*06/20/2018 20:23*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A806225**		
% Solids	**72.2**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

S4-18

A182513-04 (Soil)

Date Sampled
06/20/2018 16:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch: A806213**			
PCB-1016	ND	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
PCB-1221	ND	0.0064	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
PCB-1232	ND	0.0043	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
PCB-1242	ND	0.0068	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
PCB-1248	**0.080**	0.0082	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	J
PCB-1254	ND	0.0068	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
PCB-1260	ND	0.0037	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	
Total PCBs	**0.080**	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 20:48	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*94.7 %*	*69.6-121*		*06/20/2018*	*06/20/2018 20:48*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*96.7 %*	*56.6-128*		*06/20/2018*	*06/20/2018 20:48*	*EPA 8082A*	
Classical Chemistry Parameters						**Preparation Batch: A806225**			
% Solids	**64.6**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation
Project Number: 268304
Project Manager: Andrew Stehn

S5-18

A182513-05 (Soil)

Date Sampled
06/20/2018 16:35

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806213**		
PCB-1016	ND	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
PCB-1221	ND	0.0062	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
PCB-1232	ND	0.0042	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
PCB-1242	ND	0.0067	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
PCB-1248	**0.054**	0.0080	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	J
PCB-1254	ND	0.0067	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
PCB-1260	ND	0.0036	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	
Total PCBs	**0.054**	0.011	0.15	mg/kg dry	1	06/20/2018	06/20/2018 21:13	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*97.5 %*	*69.6-121*		*06/20/2018*	*06/20/2018 21:13*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*98.4 %*	*56.6-128*		*06/20/2018*	*06/20/2018 21:13*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A806225**		
% Solids	**66.1**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

S6-18

A182513-06 (Soil)

Date Sampled
06/20/2018 16:25

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch: A806213**			
PCB-1016	ND	0.0088	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
PCB-1221	ND	0.0049	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
PCB-1232	ND	0.0033	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
PCB-1242	ND	0.0052	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
PCB-1248	**0.14**	0.0063	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
PCB-1254	**0.076**	0.0052	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	J
PCB-1260	ND	0.0029	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
Total PCBs	**0.22**	0.0088	0.12	mg/kg dry	1	06/20/2018	06/20/2018 21:38	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*95.6 %*	*69.6-121*		*06/20/2018*	*06/20/2018 21:38*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*99.0 %*	*56.6-128*		*06/20/2018*	*06/20/2018 21:38*	*EPA 8082A*	
Classical Chemistry Parameters						**Preparation Batch: A806225**			
% Solids	**83.9**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

S7-18

A182513-07 (Soil)

Date Sampled
06/20/2018 16:45

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch: A806213**			
PCB-1016	ND	0.0098	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
PCB-1221	ND	0.0054	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
PCB-1232	ND	0.0037	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
PCB-1242	ND	0.0058	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
PCB-1248	**0.042**	0.0070	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	J
PCB-1254	ND	0.0058	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
PCB-1260	ND	0.0032	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	
Total PCBs	**0.042**	0.0098	0.13	mg/kg dry	1	06/20/2018	06/20/2018 22:03	EPA 8082A	J
Surrogate: Tetrachloro-meta-xylene			*97.8 %*	*69.6-121*		*06/20/2018*	*06/20/2018 22:03*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*101 %*	*56.6-128*		*06/20/2018*	*06/20/2018 22:03*	*EPA 8082A*	
Classical Chemistry Parameters						**Preparation Batch: A806225**			
% Solids	**75.8**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation
Project Number: 268304
Project Manager: Andrew Stehn

S8-18

A182513-08 (Soil)

Date Sampled
06/20/2018 16:45

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806213**		
PCB-1016	ND	0.0087	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1221	ND	0.0048	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1232	ND	0.0033	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1242	ND	0.0052	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1248	**0.18**	0.0063	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1254	ND	0.0052	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
PCB-1260	ND	0.0028	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
Total PCBs	**0.18**	0.0087	0.12	mg/kg dry	1	06/20/2018	06/20/2018 22:27	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*96.8 %*	*69.6-121*		*06/20/2018*	*06/20/2018 22:27*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*99.9 %*	*56.6-128*		*06/20/2018*	*06/20/2018 22:27*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A806225**		
% Solids	**84.7**		0.00	% by Weight	1	06/20/2018	06/21/2018 09:33	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806213 - EPA 3570										
Blank (A806213-BLK1)				Prepared: 06/20/2018 Analyzed: 06/20/2018 18:56						
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: Tetrachloro-meta-xylene	*0.227*		*mg/kg wet*	*0.2400*		*94.6*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.233*		*mg/kg wet*	*0.2400*		*97.0*	*56.6-128*			
LCS (A806213-BS1)				Prepared: 06/20/2018 Analyzed: 06/20/2018 14:32						
PCB-1248	1.94	0.10	mg/kg wet	2.000		96.9	74.4-123			
Surrogate: Tetrachloro-meta-xylene	*0.239*		*mg/kg wet*	*0.2400*		*99.5*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.235*		*mg/kg wet*	*0.2400*		*97.9*	*56.6-128*			
Matrix Spike (A806213-MS1)	**Source: A182513-08**			Prepared: 06/20/2018 Analyzed: 06/21/2018 00:32						
PCB-1248	2.45	0.12	mg/kg dry	2.361	0.185	96.1	61.9-141			
Surrogate: Tetrachloro-meta-xylene	*0.274*		*mg/kg dry*	*0.2833*		*96.7*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.290*		*mg/kg dry*	*0.2833*		*103*	*56.6-128*			
Matrix Spike Dup (A806213-MSD1)	**Source: A182513-08**			Prepared: 06/20/2018 Analyzed: 06/21/2018 00:57						
PCB-1248	2.53	0.12	mg/kg dry	2.361	0.185	99.3	61.9-141	3.06	20	
Surrogate: Tetrachloro-meta-xylene	*0.280*		*mg/kg dry*	*0.2833*		*98.8*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.294*		*mg/kg dry*	*0.2833*		*104*	*56.6-128*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806225 - % Solids										
Duplicate (A806225-DUP1)	**Source: A182513-01**		Prepared: 06/20/2018 Analyzed: 06/21/2018 09:33							
% Solids	68.4	0.00	% by Weight		68.4			0.0494	20	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

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

Pace Analytical
ECCS Mobile Lab Services

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 09417 Page: 1 of: 1

Lab Work Order #: A182513

Project Number: 268304 PO Number:
Project Name: Madison Kipp Corporation
Project Location (City, State): Madison, WI
Turn Around (check one): ☐ Normal ☒ Rush 24-hour
If Rush, Report Due Date:
Sampled By (Print): Andrew Stehn

Preservation Codes
Analyses Requested

Report To: Andrew Stehn
Company: TRC
Address 1: 708 Heartland Trail, Ste. 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trcsolutions.com
Invoice To: apinvoiceapproval@trcsolutions.com
Company: TRC
Address 1: –
Address 2: –

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	A: PCB 8082						Comments	Lab ID	Lab Receipt Time
S1-18	6/20/18	16:15	S	1	X							01	
S2-18		16:20										02	
S3-18		16:30										03	
S4-18		16:30										04	
S5-18		16:35										05	
S6-18		16:25										06	
S7-18		16:45										07	
S8-18	↓	16:45	↓	↓	↓							08	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Andrew Stehn TRC	17-4 16:44	6/20/18	[signature]	06-20-18	1730
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: WALK-IN
Receipt Temp: On ICE
Thermometer #/ Exp. Date: 160142274
Temp Blank: ☒ Y ☐ N

Rev. 12/15

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 26, 2018

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

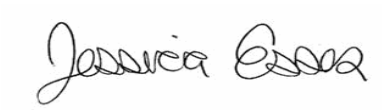
RE: Madison Kipp Corporation

Enclosed are the analytical results for the samples received by the laboratory on 06/22/2018.

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			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2019
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2019
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2019
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2018
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2019
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2018
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Topsoil	A182527-01	Soil	06/22/2018	06/22/2018

CASE NARRATIVE

Sample Receipt Information:
1 sample was received on 06/22/2018. Sample was received on ice. Sample was received in acceptable condition.

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

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Topsoil

A182527-01 (Soil)

Date Sampled
06/22/2018 15:01

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A806234**		
PCB-1016	ND	0.010	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1221	ND	0.0056	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1232	ND	0.0038	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1242	ND	0.0060	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1248	ND	0.0073	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1254	ND	0.0060	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
PCB-1260	ND	0.0033	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
Total PCBs	ND	0.010	0.14	mg/kg dry	1	06/22/2018	06/22/2018 20:17	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*95.3 %*	*69.6-121*		*06/22/2018*	*06/22/2018 20:17*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*96.7 %*	*56.6-128*		*06/22/2018*	*06/22/2018 20:17*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A806237**		
% Solids	**72.8**		0.00	% by Weight	1	06/22/2018	06/23/2018 20:00	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806234 - EPA 3570										
Blank (A806234-BLK1)				Prepared: 06/22/2018 Analyzed: 06/22/2018 19:52						
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: Tetrachloro-meta-xylene	*0.223*		*mg/kg wet*	*0.2400*		*92.9*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.232*		*mg/kg wet*	*0.2400*		*96.7*	*56.6-128*			
LCS (A806234-BS1)				Prepared: 06/22/2018 Analyzed: 06/22/2018 19:27						
PCB-1248	1.80	0.10	mg/kg wet	2.000		90.1	74.4-123			
Surrogate: Tetrachloro-meta-xylene	*0.218*		*mg/kg wet*	*0.2400*		*90.8*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.225*		*mg/kg wet*	*0.2400*		*93.8*	*56.6-128*			
Matrix Spike (A806234-MS1)	**Source: A182527-01**			Prepared: 06/22/2018 Analyzed: 06/22/2018 20:42						
PCB-1248	2.88	0.14	mg/kg dry	2.745	ND	105	61.9-141			
Surrogate: Tetrachloro-meta-xylene	*0.335*		*mg/kg dry*	*0.3295*		*102*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.325*		*mg/kg dry*	*0.3295*		*98.8*	*56.6-128*			
Matrix Spike Dup (A806234-MSD1)	**Source: A182527-01**			Prepared: 06/22/2018 Analyzed: 06/22/2018 21:07						
PCB-1248	2.79	0.14	mg/kg dry	2.745	ND	102	61.9-141	2.90	20	
Surrogate: Tetrachloro-meta-xylene	*0.324*		*mg/kg dry*	*0.3295*		*98.4*	*69.6-121*			
Surrogate: Decachlorobiphenyl	*0.320*		*mg/kg dry*	*0.3295*		*97.3*	*56.6-128*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A806237 - % Solids										
Duplicate (A806237-DUP1)	**Source: A182527-01**		Prepared: 06/22/2018 Analyzed: 06/23/2018 20:00							
% Solids	72.8	0.00	% by Weight		72.8			0.0422	20	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation
708 Heartland Trail, Ste 3000	Project Number: 268304
Madison WI, 53717	Project Manager: Andrew Stehn

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

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 09423 Page: 1 of: 1

Lab Work Order #: A182527

Project Number: 268304 PO Number:
Project Name: MAC Rain Garden
Project Location (City, State): Madison, WI
Turn Around (check one): ☒ Normal Soil ☒ Rush 24 hr Water
If Rush, Report Due Date:
Sampled By (Print): ANDREW STEHN

Report To: ANDREW STEHN
Company: TRC
Address 1:
Address 2:
E-mail Address: astehn@trcsolutions

Invoice To: ANDREW STEHN
Company: TRC
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: A	PCBs	Comments	Lab ID	Lab Receipt Time
TOPSOIL	6/22/18	1501	S	1	X	X		01	
V227-2	↓	1700	W	4	X	X		—	
V292-2	↓	1705	W	4	X	X		—	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: TRC Date: 6/22/18 Time:
Received By: Date: 6/22/18 Time: 1810
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: walk-in
Receipt Temp: once
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15