

Lampo, Luke W - DNR

From: Martin, Steven L - DNR
Sent: Thursday, June 24, 2021 8:35 AM
To: Lampo, Luke W - DNR
Subject: FW: Madison Kipp Corporation - Interior Manufacturing Floor Modifications - Facility ID No. 113125320, WI BRRTS No. 02-13-578014
Attachments: 04.26.2021_Madison-Kipp Corporation - Interior Manufacturing Floor Modification Updates_Facility ID No. 113125320, WI BRRTS No. 02-13-578014.pdf; 40225904_frc.pdf

FYI.

No action needed.

SLM

From: Stehn, Andrew <AStehn@trccompanies.com>
Sent: Wednesday, June 23, 2021 9:00 PM
To: Martin, Steven L - DNR <StevenL.Martin@wisconsin.gov>; Ramanauskas, Peter <ramanauskas.peter@epa.gov>; Beedle, Michael <beedle.michael@epa.gov>
Cc: Matt Sill <msill@madison-kipp.com>; Mark Sheppard <msheppard@madison-kipp.com>; Vater, Katherine <KVater@trccompanies.com>
Subject: RE: Madison Kipp Corporation - Interior Manufacturing Floor Modifications - Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Peter,

MKC completed the concrete sampling for Section 11 as outlined in the attached April 26, 2021 notification letter. Overall 7 composite samples were collected and analyzed for PCBs and metals for waste characterization purposes.

The attached laboratory report includes the results for the composite samples collected from Section 11. As outlined in the notification letter, each composite sample consisted of 4-5 sub samples (depending on the location) from a 12 ft by 15 ft grid. The sub samples were held and not analyzed as a result of the low detections in the composite samples as follows.

All the composite samples were reported below 10 mg/kg (PCB TSCA limit - 50 mg/kg /5 Sub samples = 10 mg/kg). None of the individual sub samples used for compositing will be analyzed for PCBs based on the composite results.

MKC has completed the concrete repair work for Sections 7, 8, and 9 and plan to move forward with replacing the concrete within Section 11 starting next week. TRC will provide a letter summarizing the work and laboratory results for repairs once the facility improvements and off-site waste disposal are completed. Please let us know if you have any comments or questions.

Thanks,

Andrew M. Stehn, P.E. (WI)
Senior Project Engineer



708 Heartland Trail, Suite 3000, Madison, WI 53717

C 608.807.8112

[LinkedIn](#) | [Twitter](#) | [Blog](#) | [TRCcompanies.com](#)

From: Vater, Katherine <KVater@trccompanies.com>

Sent: Monday, April 26, 2021 3:55 PM

To: Stehn, Andrew <AStehn@trccompanies.com>; Martin, Steven L - DNR <StevenL.Martin@wisconsin.gov>;
Ramanauskas, Peter <ramanauskas.peter@epa.gov>; Beedle, Michael <beedle.michael@epa.gov>

Cc: Matt Sill <msill@madison-kipp.com>; Mark Sheppard <msheppard@madison-kipp.com>

Subject: RE: Madison Kipp Corporation - Interior Manufacturing Floor Modifications - Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Peter –

The attached letter documents our discussion Friday to complete the remaining concrete sampling for MKC on larger grid spacings.

Please let us know if you have any questions based on the attached updated notification.

Thanks,
Katherine

608-826-3663

From: Stehn, Andrew <AStehn@trccompanies.com>

Sent: Tuesday, March 23, 2021 6:16 PM

To: Martin, Steven L - DNR <StevenL.Martin@wisconsin.gov>; Ramanauskas, Peter <ramanauskas.peter@epa.gov>;
Beedle, Michael <beedle.michael@epa.gov>

Cc: Matt Sill <msill@madison-kipp.com>; Krause, Tina <TKrause@trccompanies.com>; Mark Sheppard
<msheppard@madison-kipp.com>; Vater, Katherine <KVater@trccompanies.com>

Subject: Madison Kipp Corporation - Interior Manufacturing Floor Modifications - Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Peter,

As a follow up to your discussion with Katherine Vater yesterday, attached is a letter summarizing the upcoming concrete improvement work at Madison Kipp Corporation's 201 Waubesa Street facility in Madison, WI. A documentation letter will be provided once the work is complete. Please feel free to contact us if you have any questions.

Thanks,

Andrew M. Stehn, P.E. (WI)
Senior Project Engineer



708 Heartland Trail, Suite 3000, Madison, WI 53717

C 608.807.8112

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Email Attachment 1 of 2

04.26.2021_Madison-Kipp Corporation - Interior Manufacturing Floor Modification Updates_Facility ID No. 113125320, WI
BRRTS No. 02-13-578014.pdf



708 Heartland Trl.
Suite 3000
Madison, WI 53717

T 608.826.3600
TRCcompanies.com

April 26, 2021

Mr. Peter Ramanauskas
Regional PCB Coordinator
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604
Ramanauskas.peter@epa.gov

Via E-mail Only

Subject: Interior Manufacturing Floor Modifications – Updates to March 23, 2021 Notification
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin
Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Dear Mr. Ramanauskas:

On March 22, 2021, TRC notified you of Madison-Kipp Corporation's (MKC) plan to complete concrete improvement work at their 201 Waubesa Street Facility (Site) as seen in Figure 1 and followed-up with written notification on March 23, 2021. The concrete improvement work is on-going for the installation of a new furnace for the operation of the facility.

Since March 23, 2021, Sections 7, 8, and 9 of the concrete floor have been removed and replaced. The area of work is shown on Figure 2. In order to characterize the existing concrete floor in Sections 7, 8, and 9 for waste disposal, on March 24 and 25, 2021, TRC collected 18 composite samples in accordance with 40 CFR 761. The sampling was consistent with the Cap Maintenance Plan in place at the site that requires that concrete repair/replacement within the MKC facility will be handled with agency notification, composite sampling for waste characterization, analytical data review, and off-site disposal at a licensed facility.

Based on the results of the composite samples collected in March, other data historically collected in this part of the facility (foundry/furnace and storage), and the purpose of the sampling (for waste characterization), TRC will complete additional characterization sampling of Sections 1 through 6, 10, and 11 on maximum 15-foot grids and 15-foot spacing of individual sample locations.

- For Sections 1 through 6, the areas will be divided into four sub-sections of dimensions 10-feet by 15-feet and individual samples from each corner of the sub-section will be composited to generate 4 composite samples per Section.
- For Sections 10 and 11, the areas will be divided into sub-sections of dimensions 12-feet by 15-feet and individual samples from each corner of the sub-section will be composited. In Section 10 this results in 10 composite samples and in Section 11 this results in 7 composite samples.

All sub-sections will be cored in each grid area, composited equally based on weight, and sent for laboratory analysis. Individual sub-samples from the holes will be containerized and will be held for further laboratory analysis if needed based on the results of the composite sample. Each sample will be laboratory analyzed for PCBs using EPA Method 8082 and metals using EPA Method 6010 and 7470, consistent with previously sampling and analysis completed at the facility.

The concrete from Sections 1 through 6, 10, and 11 is planned to be removed by MKC's contractor beginning in May 2021. The concrete will be placed in covered roll-off containers and/or loaded into the contractors dump truck for off-site disposal pending the results of the laboratory analyses and

Mr. Peter Ramanauskas
U.S. Environmental Protection Agency
April 26, 2021
Page 2

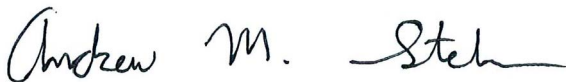
coordination with the licensed landfill facility. TRC will provide a documentation letter of the analytical results and disposal documentation upon completion of the work. The planned sampling approach in Sections 1 through 6, 10, and 11 is consistent with the Cap Maintenance Plan at the site while balancing the sampling effort over the large area comprised by these sections.

We are proposing to modify the sampling approach in Sections 1 through 6, 10, and 11 to the 15-foot grids compared to the 10-foot grids described in the March 23, 2021 notification letter. We discussed this approach in a conference call on April 23, 2021 with MKC (Mark Sheppard and Matt Sill), TRC (Andy and Katherine), and yourself. If you have any concerns about the proposed grid spacing, please contact me as soon as possible, as TRC is planning to begin additional waste characterization sampling this week based on MKC's schedule for facility repairs.

If you have any questions or comments, please feel free to contact Andrew Stehn (608-807-8112) or Katherine Vater (608-826-3663).

Sincerely,

TRC



Andrew Stehn, P.E.
Senior Project Engineer

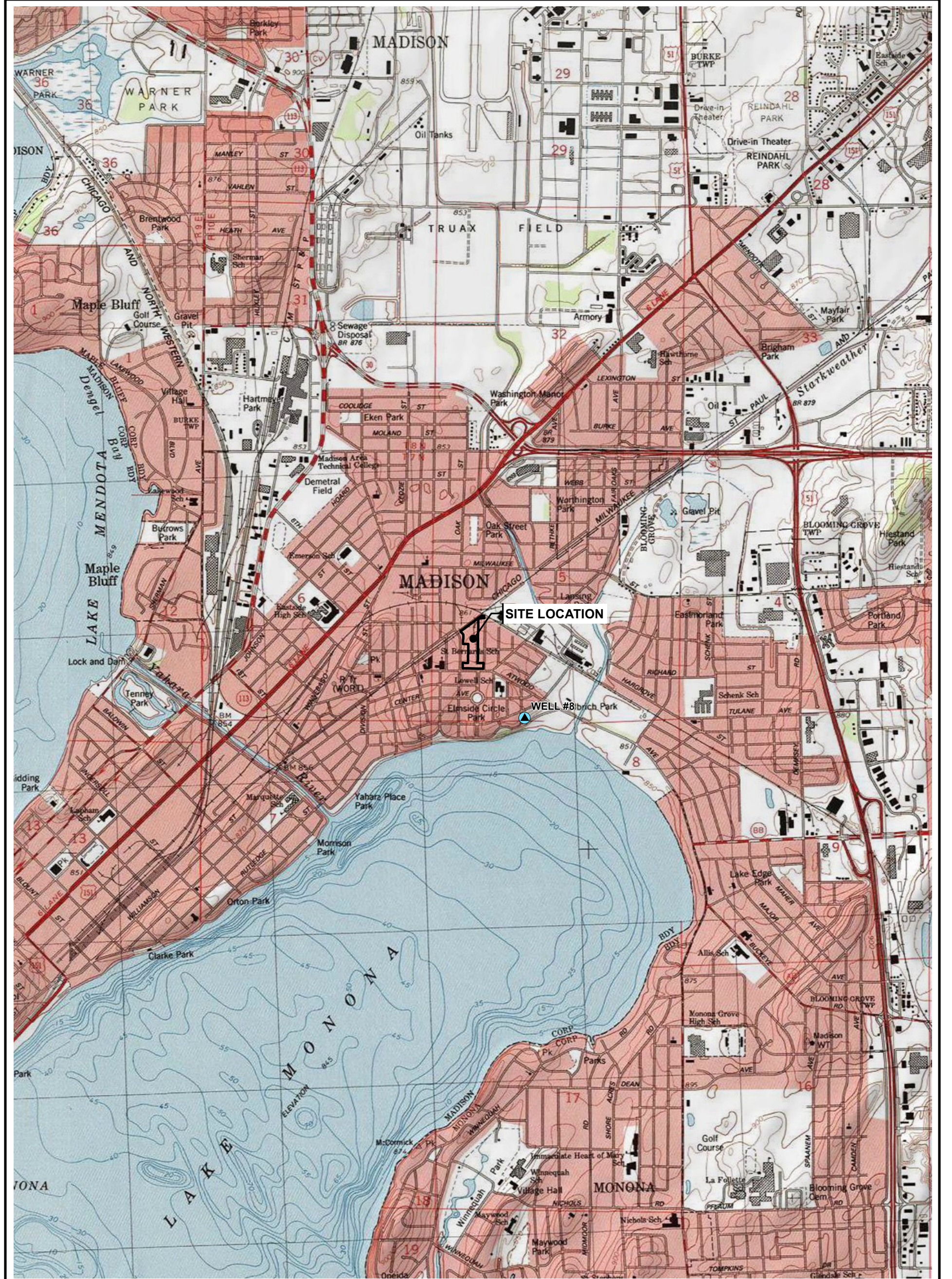


Katherine Vater, P.E.
Project Manager

Attachments: Figure 1 – Site Location Map
Figure 2 – Proposed Sections of Concrete Repair

cc: Mark Sheppard and Matt Sill, Madison-Kipp Corporation (electronic)
Michael Beedle, U.S. EPA (electronic)
Steve Martin, WDNR (electronic)

Figures



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



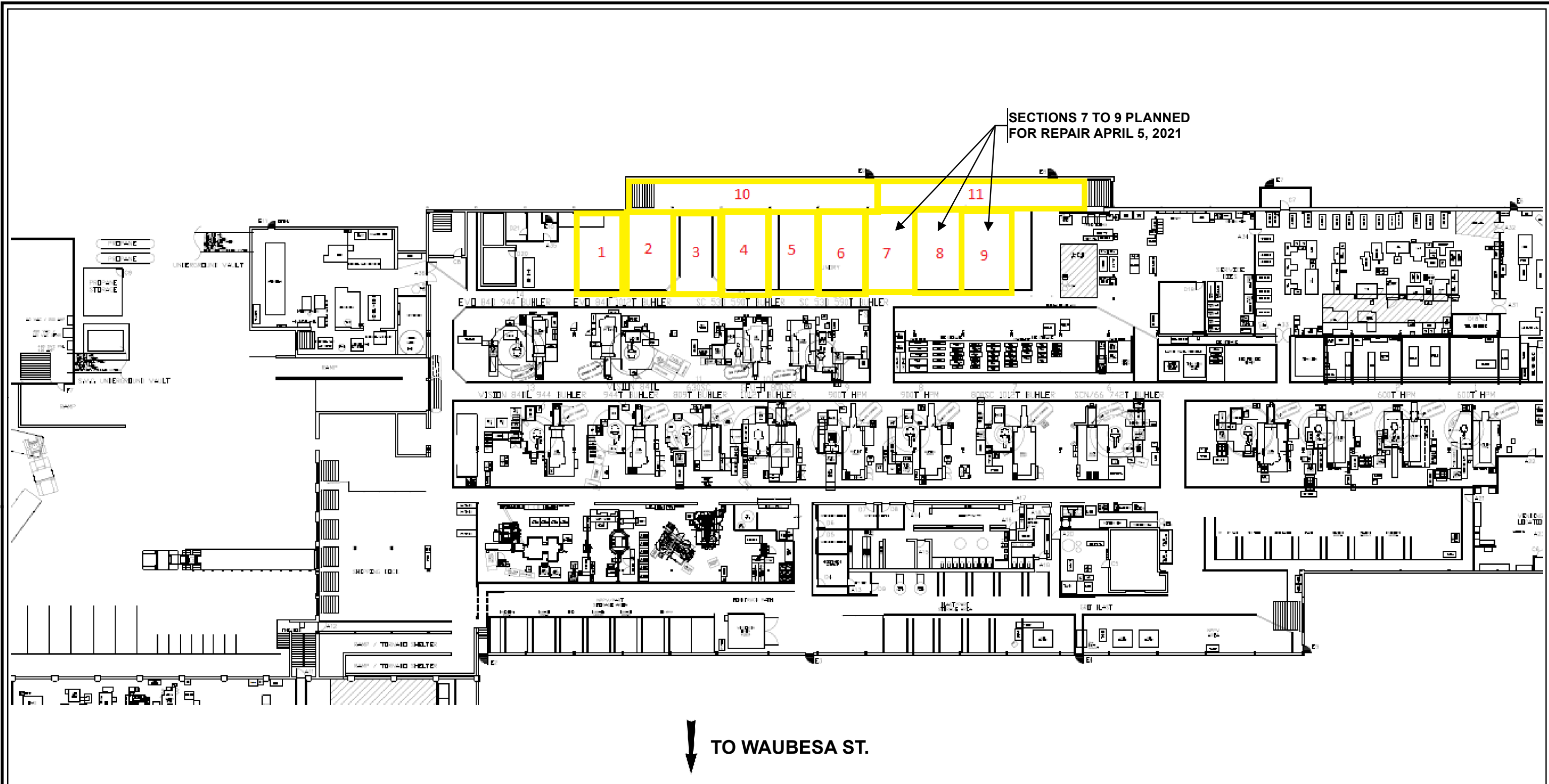
708 Heartland Trail
 Suite 3000
 Madison, WI 53717
 Phone: 608.826.3600

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

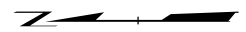
TITLE: **SITE LOCATION MAP**

DRAWN BY:	A. ADAIR
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	MARCH 2019
PROJ. NO.:	323372
FILE:	266431-2018S2-014.mxd

FIGURE 1



- NOTES**
1. SITE PLAN NOT TO SCALE.
 2. SECTIONS 1 THROUGH 9 ARE 30 FEET BY 20 FEET.
 3. SECTION 10 IS 12 FEET BY 100 FEET.
 4. SECTION 11 IS 12 FEET BY 70 FEET.



PROJECT:		MADISON-KIPP CORPORATION 201 WAUBESA STREET MADISON, WISCONSIN	
TITLE:			
PROPOSED SECTIONS OF CONCRETE REPAIR			
DRAWN BY:	R. SUEMNICHT	PROJ. NO.:	419610
CHECKED BY:	A. STEHN	FIGURE 2	
APPROVED BY:	K. VATER		
DATE:	MARCH 2021		
		708 Heartland Trail, Suite 3000 Madison, WI 53717 Phone: 608.826.3600 www.trccompanies.com	
FILE NO.:	419610-001.mxd		

Email Attachment 2 of 2

40225904_frc

May 12, 2021

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison
Katherine Vater, TRC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40225904001	CS-11A	Solid	04/27/21 15:44	04/28/21 07:30
40225904002	CS-11B	Solid	04/27/21 16:00	04/28/21 07:30
40225904003	CS-11C	Solid	04/27/21 16:10	04/28/21 07:30
40225904004	CS-11D	Solid	04/27/21 16:25	04/28/21 07:30
40225904005	CS-11E	Solid	04/27/21 16:33	04/28/21 07:30
40225904006	CS-11F	Solid	04/27/21 16:40	04/28/21 07:30
40225904007	CS-11G	Solid	04/27/21 16:47	04/28/21 07:30

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SAMPLE ANALYTE COUNT

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40225904001	CS-11A	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904002	CS-11B	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904003	CS-11C	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904004	CS-11D	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904005	CS-11E	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904006	CS-11F	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1
40225904007	CS-11G	EPA 8082A	BLM	10
		EPA 6010	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	AH	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40225904001	CS-11A					
EPA 8082A	PCB, Total	50.0J	ug/kg	50.8	05/06/21 22:45	
EPA 8082A	PCB-1248 (Aroclor 1248)	50.0J	ug/kg	50.8	05/06/21 22:45	
EPA 6010	Arsenic	5.8	mg/kg	5.1	05/03/21 13:07	
EPA 6010	Barium	35.8	mg/kg	1.0	05/03/21 13:07	
EPA 6010	Cadmium	0.38J	mg/kg	1.0	05/03/21 13:07	D3
EPA 6010	Chromium	17.9	mg/kg	2.0	05/03/21 13:07	M0, R1
EPA 6010	Lead	4.0J	mg/kg	4.1	05/03/21 13:07	D3
EPA 7471	Mercury	0.013J	mg/kg	0.035	05/11/21 12:32	
ASTM D2974-87	Percent Moisture	1.9	%	0.10	04/28/21 15:31	
40225904002	CS-11B					
EPA 8082A	PCB, Total	48.9J	ug/kg	50.8	05/06/21 23:07	
EPA 8082A	PCB-1248 (Aroclor 1248)	48.9J	ug/kg	50.8	05/06/21 23:07	
EPA 6010	Arsenic	4.4J	mg/kg	5.1	05/03/21 13:21	D3
EPA 6010	Barium	39.9	mg/kg	1.0	05/03/21 13:21	
EPA 6010	Cadmium	0.32J	mg/kg	1.0	05/03/21 13:21	D3
EPA 6010	Chromium	29.3	mg/kg	2.0	05/03/21 13:21	
EPA 6010	Lead	3.1J	mg/kg	4.1	05/03/21 13:21	D3
EPA 7471	Mercury	0.012J	mg/kg	0.034	05/11/21 12:38	
ASTM D2974-87	Percent Moisture	1.8	%	0.10	04/28/21 15:31	
40225904003	CS-11C					
EPA 8082A	PCB, Total	74.7	ug/kg	50.7	05/06/21 23:29	
EPA 8082A	PCB-1248 (Aroclor 1248)	74.7	ug/kg	50.7	05/06/21 23:29	
EPA 6010	Arsenic	4.1J	mg/kg	5.1	05/03/21 13:26	D3
EPA 6010	Barium	50.8	mg/kg	1.0	05/03/21 13:26	
EPA 6010	Cadmium	0.31J	mg/kg	1.0	05/03/21 13:26	D3
EPA 6010	Chromium	18.1	mg/kg	2.0	05/03/21 13:26	
EPA 6010	Lead	3.4J	mg/kg	4.1	05/03/21 13:26	D3
EPA 7471	Mercury	0.012J	mg/kg	0.035	05/11/21 12:41	
ASTM D2974-87	Percent Moisture	1.6	%	0.10	04/28/21 15:31	
40225904004	CS-11D					
EPA 8082A	PCB, Total	58.1	ug/kg	50.7	05/06/21 23:51	
EPA 8082A	PCB-1248 (Aroclor 1248)	58.1	ug/kg	50.7	05/06/21 23:51	
EPA 6010	Arsenic	3.7J	mg/kg	4.8	05/03/21 13:29	D3
EPA 6010	Barium	53.6	mg/kg	0.97	05/03/21 13:29	
EPA 6010	Chromium	17.5	mg/kg	1.9	05/03/21 13:29	
EPA 6010	Lead	3.5J	mg/kg	3.9	05/03/21 13:29	D3
EPA 7471	Mercury	0.012J	mg/kg	0.034	05/11/21 12:43	
ASTM D2974-87	Percent Moisture	1.4	%	0.10	04/28/21 15:31	
40225904005	CS-11E					
EPA 6010	Arsenic	3.3J	mg/kg	5.0	05/03/21 13:31	D3
EPA 6010	Barium	43.3	mg/kg	1.0	05/03/21 13:31	
EPA 6010	Cadmium	0.28J	mg/kg	1.0	05/03/21 13:31	D3
EPA 6010	Chromium	13.6	mg/kg	2.0	05/03/21 13:31	
EPA 6010	Lead	3.8J	mg/kg	4.0	05/03/21 13:31	D3
EPA 7471	Mercury	0.011J	mg/kg	0.032	05/11/21 12:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40225904005	CS-11E					
ASTM D2974-87	Percent Moisture	1.4	%	0.10	04/28/21 15:31	
40225904006	CS-11F					
EPA 6010	Arsenic	4.0J	mg/kg	5.1	05/03/21 13:34	D3
EPA 6010	Barium	40.5	mg/kg	1.0	05/03/21 13:34	
EPA 6010	Cadmium	0.36J	mg/kg	1.0	05/03/21 13:34	D3
EPA 6010	Chromium	11.7	mg/kg	2.0	05/03/21 13:34	
EPA 6010	Lead	3.7J	mg/kg	4.1	05/03/21 13:34	D3
EPA 7471	Mercury	0.011J	mg/kg	0.032	05/11/21 12:48	
ASTM D2974-87	Percent Moisture	2.1	%	0.10	04/28/21 15:31	
40225904007	CS-11G					
EPA 8082A	PCB, Total	301	ug/kg	51.3	05/07/21 00:56	
EPA 8082A	PCB-1248 (Aroclor 1248)	301	ug/kg	51.3	05/07/21 00:56	
EPA 6010	Arsenic	4.4J	mg/kg	5.1	05/03/21 13:36	D3
EPA 6010	Barium	40.0	mg/kg	1.0	05/03/21 13:36	
EPA 6010	Chromium	14.0	mg/kg	2.0	05/03/21 13:36	
EPA 6010	Lead	3.6J	mg/kg	4.1	05/03/21 13:36	D3
EPA 7471	Mercury	0.012J	mg/kg	0.034	05/11/21 12:55	
ASTM D2974-87	Percent Moisture	2.8	%	0.10	04/28/21 15:31	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Method: EPA 8082A

Description: 8082A GCS PCB

Client: TRC - MADISON

Date: May 12, 2021

General Information:

7 samples were analyzed for EPA 8082A by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Method: EPA 6010

Description: 6010 MET ICP

Client: TRC - MADISON

Date: May 12, 2021

General Information:

7 samples were analyzed for EPA 6010 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383785

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40225904001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 2213795)
 - Chromium

R1: RPD value was outside control limits.

- MS (Lab ID: 2213794)
 - Chromium
- MSD (Lab ID: 2213795)
 - Chromium

Additional Comments:

Analyte Comments:

QC Batch: 383785

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- CS-11A (Lab ID: 40225904001)
 - Silver

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Method: EPA 6010

Description: 6010 MET ICP

Client: TRC - MADISON

Date: May 12, 2021

Analyte Comments:

QC Batch: 383785

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- CS-11A (Lab ID: 40225904001)
 - Cadmium
 - Lead
 - Selenium
- CS-11B (Lab ID: 40225904002)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium
- CS-11C (Lab ID: 40225904003)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium
- CS-11D (Lab ID: 40225904004)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium
- CS-11E (Lab ID: 40225904005)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium
- CS-11F (Lab ID: 40225904006)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium
- CS-11G (Lab ID: 40225904007)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Method: EPA 7471

Description: 7471 Mercury

Client: TRC - MADISON

Date: May 12, 2021

General Information:

7 samples were analyzed for EPA 7471 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11A **Lab ID: 40225904001** Collected: 04/27/21 15:44 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	50.0J	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	53469-21-9	
PCB-1248 (Aroclor 1248)	50.0J	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 22:45	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	67-102		1	05/06/21 05:45	05/06/21 22:45	877-09-8	
Decachlorobiphenyl (S)	71	%	47-114		1	05/06/21 05:45	05/06/21 22:45	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	5.8	mg/kg	5.1	3.0	2	04/29/21 08:31	05/03/21 13:07	7440-38-2	
Barium	35.8	mg/kg	1.0	0.30	2	04/29/21 08:31	05/03/21 13:07	7440-39-3	
Cadmium	0.38J	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:07	7440-43-9	D3
Chromium	17.9	mg/kg	2.0	0.56	2	04/29/21 08:31	05/03/21 13:07	7440-47-3	M0, R1
Lead	4.0J	mg/kg	4.1	1.2	2	04/29/21 08:31	05/03/21 13:07	7439-92-1	D3
Selenium	<2.7	mg/kg	8.1	2.7	2	04/29/21 08:31	05/03/21 13:07	7782-49-2	D3
Silver	<0.62	mg/kg	2.0	0.62	2	04/29/21 08:31	05/03/21 13:07	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.013J	mg/kg	0.035	0.010	1	05/10/21 09:19	05/11/21 12:32	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.9	%	0.10	0.10	1		04/28/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11B **Lab ID: 40225904002** Collected: 04/27/21 16:00 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	48.9J	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	53469-21-9	
PCB-1248 (Aroclor 1248)	48.9J	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	50.8	15.5	1	05/06/21 05:45	05/06/21 23:07	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	67-102		1	05/06/21 05:45	05/06/21 23:07	877-09-8	
Decachlorobiphenyl (S)	72	%	47-114		1	05/06/21 05:45	05/06/21 23:07	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.4J	mg/kg	5.1	3.0	2	04/29/21 08:31	05/03/21 13:21	7440-38-2	D3
Barium	39.9	mg/kg	1.0	0.30	2	04/29/21 08:31	05/03/21 13:21	7440-39-3	
Cadmium	0.32J	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:21	7440-43-9	D3
Chromium	29.3	mg/kg	2.0	0.56	2	04/29/21 08:31	05/03/21 13:21	7440-47-3	
Lead	3.1J	mg/kg	4.1	1.2	2	04/29/21 08:31	05/03/21 13:21	7439-92-1	D3
Selenium	<2.7	mg/kg	8.1	2.7	2	04/29/21 08:31	05/03/21 13:21	7782-49-2	D3
Silver	<0.62	mg/kg	2.0	0.62	2	04/29/21 08:31	05/03/21 13:21	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.012J	mg/kg	0.034	0.0097	1	05/10/21 09:19	05/11/21 12:38	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.8	%	0.10	0.10	1		04/28/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11C **Lab ID: 40225904003** Collected: 04/27/21 16:10 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	74.7	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	53469-21-9	
PCB-1248 (Aroclor 1248)	74.7	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:29	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	67-102		1	05/06/21 05:45	05/06/21 23:29	877-09-8	
Decachlorobiphenyl (S)	71	%	47-114		1	05/06/21 05:45	05/06/21 23:29	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.1J	mg/kg	5.1	3.0	2	04/29/21 08:31	05/03/21 13:26	7440-38-2	D3
Barium	50.8	mg/kg	1.0	0.30	2	04/29/21 08:31	05/03/21 13:26	7440-39-3	
Cadmium	0.31J	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:26	7440-43-9	D3
Chromium	18.1	mg/kg	2.0	0.56	2	04/29/21 08:31	05/03/21 13:26	7440-47-3	
Lead	3.4J	mg/kg	4.1	1.2	2	04/29/21 08:31	05/03/21 13:26	7439-92-1	D3
Selenium	<2.7	mg/kg	8.1	2.7	2	04/29/21 08:31	05/03/21 13:26	7782-49-2	D3
Silver	<0.62	mg/kg	2.0	0.62	2	04/29/21 08:31	05/03/21 13:26	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.012J	mg/kg	0.035	0.010	1	05/10/21 09:19	05/11/21 12:41	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.6	%	0.10	0.10	1		04/28/21 15:31		

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11D **Lab ID: 40225904004** Collected: 04/27/21 16:25 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	58.1	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	53469-21-9	
PCB-1248 (Aroclor 1248)	58.1	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/06/21 23:51	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	67-102		1	05/06/21 05:45	05/06/21 23:51	877-09-8	
Decachlorobiphenyl (S)	72	%	47-114		1	05/06/21 05:45	05/06/21 23:51	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	3.7J	mg/kg	4.8	2.8	2	04/29/21 08:31	05/03/21 13:29	7440-38-2	D3
Barium	53.6	mg/kg	0.97	0.29	2	04/29/21 08:31	05/03/21 13:29	7440-39-3	
Cadmium	<0.26	mg/kg	0.97	0.26	2	04/29/21 08:31	05/03/21 13:29	7440-43-9	D3
Chromium	17.5	mg/kg	1.9	0.54	2	04/29/21 08:31	05/03/21 13:29	7440-47-3	
Lead	3.5J	mg/kg	3.9	1.2	2	04/29/21 08:31	05/03/21 13:29	7439-92-1	D3
Selenium	<2.5	mg/kg	7.7	2.5	2	04/29/21 08:31	05/03/21 13:29	7782-49-2	D3
Silver	<0.59	mg/kg	1.9	0.59	2	04/29/21 08:31	05/03/21 13:29	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.012J	mg/kg	0.034	0.0098	1	05/10/21 09:19	05/11/21 12:43	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.4	%	0.10	0.10	1		04/28/21 15:31		

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11E **Lab ID: 40225904005** Collected: 04/27/21 16:33 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.4	ug/kg	50.7	15.4	1	05/06/21 05:45	05/07/21 00:13	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	67-102		1	05/06/21 05:45	05/07/21 00:13	877-09-8	
Decachlorobiphenyl (S)	80	%	47-114		1	05/06/21 05:45	05/07/21 00:13	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	3.3J	mg/kg	5.0	3.0	2	04/29/21 08:31	05/03/21 13:31	7440-38-2	D3
Barium	43.3	mg/kg	1.0	0.30	2	04/29/21 08:31	05/03/21 13:31	7440-39-3	
Cadmium	0.28J	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:31	7440-43-9	D3
Chromium	13.6	mg/kg	2.0	0.56	2	04/29/21 08:31	05/03/21 13:31	7440-47-3	
Lead	3.8J	mg/kg	4.0	1.2	2	04/29/21 08:31	05/03/21 13:31	7439-92-1	D3
Selenium	<2.6	mg/kg	8.1	2.6	2	04/29/21 08:31	05/03/21 13:31	7782-49-2	D3
Silver	<0.62	mg/kg	2.0	0.62	2	04/29/21 08:31	05/03/21 13:31	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.011J	mg/kg	0.032	0.0090	1	05/10/21 09:19	05/11/21 12:45	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.4	%	0.10	0.10	1		04/28/21 15:31		

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11F **Lab ID: 40225904006** Collected: 04/27/21 16:40 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	51.1	15.5	1	05/06/21 05:45	05/07/21 00:35	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	67-102		1	05/06/21 05:45	05/07/21 00:35	877-09-8	
Decachlorobiphenyl (S)	79	%	47-114		1	05/06/21 05:45	05/07/21 00:35	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.0J	mg/kg	5.1	3.0	2	04/29/21 08:31	05/03/21 13:34	7440-38-2	D3
Barium	40.5	mg/kg	1.0	0.31	2	04/29/21 08:31	05/03/21 13:34	7440-39-3	
Cadmium	0.36J	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:34	7440-43-9	D3
Chromium	11.7	mg/kg	2.0	0.57	2	04/29/21 08:31	05/03/21 13:34	7440-47-3	
Lead	3.7J	mg/kg	4.1	1.2	2	04/29/21 08:31	05/03/21 13:34	7439-92-1	D3
Selenium	<2.7	mg/kg	8.2	2.7	2	04/29/21 08:31	05/03/21 13:34	7782-49-2	D3
Silver	<0.63	mg/kg	2.0	0.63	2	04/29/21 08:31	05/03/21 13:34	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.011J	mg/kg	0.032	0.0092	1	05/10/21 09:19	05/11/21 12:48	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.1	%	0.10	0.10	1		04/28/21 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

Sample: CS-11G **Lab ID: 40225904007** Collected: 04/27/21 16:47 Received: 04/28/21 07:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3541									
Pace Analytical Services - Green Bay									
PCB, Total	301	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	53469-21-9	
PCB-1248 (Aroclor 1248)	301	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.6	ug/kg	51.3	15.6	1	05/06/21 05:45	05/07/21 00:56	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	67-102		1	05/06/21 05:45	05/07/21 00:56	877-09-8	
Decachlorobiphenyl (S)	73	%	47-114		1	05/06/21 05:45	05/07/21 00:56	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.4J	mg/kg	5.1	3.0	2	04/29/21 08:31	05/03/21 13:36	7440-38-2	D3
Barium	40.0	mg/kg	1.0	0.31	2	04/29/21 08:31	05/03/21 13:36	7440-39-3	
Cadmium	<0.27	mg/kg	1.0	0.27	2	04/29/21 08:31	05/03/21 13:36	7440-43-9	D3
Chromium	14.0	mg/kg	2.0	0.57	2	04/29/21 08:31	05/03/21 13:36	7440-47-3	
Lead	3.6J	mg/kg	4.1	1.2	2	04/29/21 08:31	05/03/21 13:36	7439-92-1	D3
Selenium	<2.7	mg/kg	8.2	2.7	2	04/29/21 08:31	05/03/21 13:36	7782-49-2	D3
Silver	<0.63	mg/kg	2.0	0.63	2	04/29/21 08:31	05/03/21 13:36	7440-22-4	D3
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.012J	mg/kg	0.034	0.0097	1	05/10/21 09:19	05/11/21 12:55	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.8	%	0.10	0.10	1		04/28/21 15:31		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

QC Batch: 384605 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

METHOD BLANK: 2218652 Matrix: Solid
Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	0.010J	0.035	05/11/21 12:27	

LABORATORY CONTROL SAMPLE: 2218653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.81	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2218654 2218655

Parameter	Units	2218654		2218655		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/kg	0.013J	0.84	0.81	0.83	96	97	85-115	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

QC Batch: 383785 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

METHOD BLANK: 2213792 Matrix: Solid
Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	04/29/21 17:03	
Barium	mg/kg	<0.15	0.50	04/29/21 17:03	
Cadmium	mg/kg	<0.13	0.50	04/29/21 17:03	
Chromium	mg/kg	<0.28	1.0	04/29/21 17:03	
Lead	mg/kg	<0.60	2.0	04/29/21 17:03	
Selenium	mg/kg	<1.3	4.0	04/29/21 17:03	
Silver	mg/kg	<0.31	1.0	04/29/21 17:03	

LABORATORY CONTROL SAMPLE: 2213793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	51.1	102	80-120	
Barium	mg/kg	50	50.3	101	80-120	
Cadmium	mg/kg	50	49.5	99	80-120	
Chromium	mg/kg	50	49.9	100	80-120	
Lead	mg/kg	50	50.2	100	80-120	
Selenium	mg/kg	50	51.4	103	80-120	
Silver	mg/kg	25	24.6	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2213794 2213795

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40225904001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/kg	5.8	50.6	50.7	56.0	57.0	99	101	75-125	2	20	
Barium	mg/kg	35.8	50.6	50.7	85.7	83.5	98	94	75-125	3	20	
Cadmium	mg/kg	0.38J	50.6	50.7	50.8	50.6	99	99	75-125	0	20	
Chromium	mg/kg	17.9	50.6	50.7	61.8	91.3	87	145	75-125	39	20	M0, R1
Lead	mg/kg	4.0J	50.6	50.7	51.9	51.4	94	93	75-125	1	20	
Selenium	mg/kg	<2.7	50.6	50.7	48.2	48.8	95	96	75-125	1	20	
Silver	mg/kg	<0.62	25.4	25.4	26.1	26.7	103	105	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

QC Batch: 384434 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

METHOD BLANK: 2217586 Matrix: Solid
Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	05/06/21 21:18	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	05/06/21 21:18	
Decachlorobiphenyl (S)	%	91	47-114	05/06/21 21:18	
Tetrachloro-m-xylene (S)	%	85	67-102	05/06/21 21:18	

LABORATORY CONTROL SAMPLE: 2217587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		<15.2			
PCB-1221 (Aroclor 1221)	ug/kg		<15.2			
PCB-1232 (Aroclor 1232)	ug/kg		<15.2			
PCB-1242 (Aroclor 1242)	ug/kg		<15.2			
PCB-1248 (Aroclor 1248)	ug/kg		<15.2			
PCB-1254 (Aroclor 1254)	ug/kg		<15.2			
PCB-1260 (Aroclor 1260)	ug/kg	500	433	87	69-115	
Decachlorobiphenyl (S)	%			91	47-114	
Tetrachloro-m-xylene (S)	%			85	67-102	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2217588 2217589

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40225904001 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<15.5			<15.5	<15.5					20
PCB-1221 (Aroclor 1221)	ug/kg	<15.5			<15.5	<15.5					20
PCB-1232 (Aroclor 1232)	ug/kg	<15.5			<15.5	<15.5					20
PCB-1242 (Aroclor 1242)	ug/kg	<15.5			<15.5	<15.5					20
PCB-1248 (Aroclor 1248)	ug/kg	50.0J			51.7	52.7			2	20	
PCB-1254 (Aroclor 1254)	ug/kg	<15.5			<15.5	<15.5					20
PCB-1260 (Aroclor 1260)	ug/kg	<15.5	510	508	347	339	68	67	45-120	2	20
Decachlorobiphenyl (S)	%						76	73	47-114		
Tetrachloro-m-xylene (S)	%						85	82	67-102		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 419610.0001 MKC-CONCRETE
Pace Project No.: 40225904

QC Batch:	383753	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40225904001, 40225904002, 40225904003, 40225904004, 40225904005, 40225904006, 40225904007

SAMPLE DUPLICATE: 2213552

Parameter	Units	40225895001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	8.1	2	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 419610.0001 MKC-CONCRETE

Pace Project No.: 40225904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40225904001	CS-11A	EPA 3541	384434	EPA 8082A	384438
40225904002	CS-11B	EPA 3541	384434	EPA 8082A	384438
40225904003	CS-11C	EPA 3541	384434	EPA 8082A	384438
40225904004	CS-11D	EPA 3541	384434	EPA 8082A	384438
40225904005	CS-11E	EPA 3541	384434	EPA 8082A	384438
40225904006	CS-11F	EPA 3541	384434	EPA 8082A	384438
40225904007	CS-11G	EPA 3541	384434	EPA 8082A	384438
40225904001	CS-11A	EPA 3050	383785	EPA 6010	383871
40225904002	CS-11B	EPA 3050	383785	EPA 6010	383871
40225904003	CS-11C	EPA 3050	383785	EPA 6010	383871
40225904004	CS-11D	EPA 3050	383785	EPA 6010	383871
40225904005	CS-11E	EPA 3050	383785	EPA 6010	383871
40225904006	CS-11F	EPA 3050	383785	EPA 6010	383871
40225904007	CS-11G	EPA 3050	383785	EPA 6010	383871
40225904001	CS-11A	EPA 7471	384605	EPA 7471	384731
40225904002	CS-11B	EPA 7471	384605	EPA 7471	384731
40225904003	CS-11C	EPA 7471	384605	EPA 7471	384731
40225904004	CS-11D	EPA 7471	384605	EPA 7471	384731
40225904005	CS-11E	EPA 7471	384605	EPA 7471	384731
40225904006	CS-11F	EPA 7471	384605	EPA 7471	384731
40225904007	CS-11G	EPA 7471	384605	EPA 7471	384731
40225904001	CS-11A	ASTM D2974-87	383753		
40225904002	CS-11B	ASTM D2974-87	383753		
40225904003	CS-11C	ASTM D2974-87	383753		
40225904004	CS-11D	ASTM D2974-87	383753		
40225904005	CS-11E	ASTM D2974-87	383753		
40225904006	CS-11F	ASTM D2974-87	383753		
40225904007	CS-11G	ASTM D2974-87	383753		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: TRC

Project # 40225904

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:


Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

4/28/21
TRC

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			


 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

 Client Name: TRC

WO#: 40225904



40225904

 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Tracking #: _____

 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

 Custody Seal on Samples Present: yes no Seals intact: yes no

 Packing Material: Bubble Wrap Bubble Bags None Other

 Thermometer Used SR - 98 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

 Cooler Temperature Uncorr: 4.0 / Corr: 4.0

 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:

 Date: 4/28/21 / Initials: SRK
 Labeled By Initials: [Signature]

 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir