

Lampo, Luke W - DNR

From: Vater, Katherine <KVater@trccompanies.com>
Sent: Wednesday, June 29, 2022 10:23 AM
To: Ramanauskas, Peter
Cc: Beedle, Michael; Matt Sill; Stehn, Andrew; Wachholz, Benjamin; Lampo, Luke W - DNR
Subject: RE: Madison-Kipp Interior Manufacturing Floor Modifications - June 2022
Attachments: 40246631_frc.pdf

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Peter, all –

On June 10 and June 15, 2022, TRC, on behalf of MKC, completed concrete and sampling as outlined in the June 8, 2022 notification letter. Samples were analyzed for PCBs and metals for waste characterization purposes.

The attached laboratory report includes the results for the composite sample of concrete (CS-MA), which was analyzed for metals for waste characterization. The laboratory report also includes the results of the soil samples (MA-C1, MA-C2, MA-C3, and MA-C4), which we analyzed for PCBs, and the composite soil sample (COMP-MA), which was analyzed for metals.

The maximum concentration of total PCBs in the soil samples was 3.33 mg/kg (PCB TSCA limit - 50 mg/kg, WI DNR NR 720 RCL Industrial Direct Contact 0.967 mg/kg). Based on the results for the soil samples, the soil will be disposed of at a facility licensed to accept soil with PCBs below the TSCA limit (< 50 mg/kg).

As noted in the notification letter, the concrete in this area of the facility was already replaced, and will therefore be disposed of based on the results of the analysis for metals and at a facility licensed to accept the material.

The sampling and repair work, including disposal documentation, will be included in the semi-annual report for the facility which covers the dates when the work was completed.

Please let us know if you have any questions.

Thanks,
Katherine

608-826-3663

From: Vater, Katherine
Sent: Wednesday, June 8, 2022 9:57 AM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Beedle, Michael <beedle.michael@epa.gov>; Matt Sill <msill@madison-kipp.com>; Stehn, Andrew <AStehn@trccompanies.com>; Wachholz, Benjamin <BWachholz@trccompanies.com>; luke.lampo@wisconsin.gov
Subject: Madison-Kipp Interior Manufacturing Floor Modifications - June 2022

Peter –

Please find the attached notification letter for upcoming concrete removal and replacement work at Madison-Kipp Corporation in Madison, WI.

Please let us know if you have any questions.

Thanks,
Katherine

Katherine Vater, PE (WI)
Senior Project Manager



708 Heartland Trail, Suite 3000, Madison, WI 53717
T 608-826-3663 | C 608-807-8968 | kvater@trccompanies.com
[LinkedIn](#) | [Twitter](#) | [Blog](#) | TRCcompanies.com

Email Attachment 1 of 1

40246631_frc.pdf

June 27, 2022

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2022. 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
Ben Wachholz, TRC Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

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: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40246631001	CS-MA	Solid	06/10/22 10:00	06/16/22 08:15
40246631002	MA-C1	Solid	06/10/22 10:35	06/16/22 08:15
40246631003	MA-C2	Solid	06/15/22 12:00	06/16/22 08:15
40246631004	MA-C3	Solid	06/10/22 12:35	06/16/22 08:15
40246631005	MA-C4	Solid	06/15/22 12:05	06/16/22 08:15
40246631006	COMP-MA	Solid	06/15/22 12:10	06/16/22 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40246631001	CS-MA	EPA 6010D	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	NMK	1
40246631002	MA-C1	EPA 8082A	BLM	10
		ASTM D2974-87	NMK	1
40246631003	MA-C2	EPA 8082A	BLM	10
		ASTM D2974-87	NMK	1
40246631004	MA-C3	EPA 8082A	BLM	10
		ASTM D2974-87	NMK	1
40246631005	MA-C4	EPA 8082A	BLM	10
		ASTM D2974-87	NMK	1
40246631006	COMP-MA	EPA 6010D	TXW	7
		EPA 7471	AJT	1
		ASTM D2974-87	NMK	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40246631001	CS-MA					
EPA 6010D	Arsenic	30.5	mg/kg	2.4	06/21/22 21:11	
EPA 6010D	Barium	109	mg/kg	0.47	06/21/22 21:11	
EPA 6010D	Cadmium	0.29J	mg/kg	0.47	06/21/22 21:11	
EPA 6010D	Chromium	13.6	mg/kg	0.95	06/21/22 21:11	
EPA 6010D	Lead	7.8	mg/kg	1.9	06/21/22 21:11	
ASTM D2974-87	Percent Moisture	1.9	%	0.10	06/23/22 15:33	
40246631002	MA-C1					
EPA 8082A	PCB-1254 (Aroclor 1254)	118	ug/kg	58.9	06/24/22 13:04	
EPA 8082A	PCB-1260 (Aroclor 1260)	72.2	ug/kg	58.9	06/24/22 13:04	
EPA 8082A	PCB, Total	190	ug/kg	58.9	06/24/22 13:04	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	06/23/22 15:33	
40246631003	MA-C2					
EPA 8082A	PCB-1242 (Aroclor 1242)	3220	ug/kg	228	06/24/22 13:26	
EPA 8082A	PCB-1260 (Aroclor 1260)	108J	ug/kg	228	06/24/22 13:26	
EPA 8082A	PCB, Total	3330	ug/kg	228	06/24/22 13:26	
ASTM D2974-87	Percent Moisture	12.1	%	0.10	06/23/22 15:33	
40246631004	MA-C3					
EPA 8082A	PCB-1248 (Aroclor 1248)	789	ug/kg	56.2	06/24/22 13:48	
EPA 8082A	PCB, Total	789	ug/kg	56.2	06/24/22 13:48	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	06/23/22 15:33	
40246631005	MA-C4					
EPA 8082A	PCB-1248 (Aroclor 1248)	2300	ug/kg	117	06/24/22 14:10	
EPA 8082A	PCB-1260 (Aroclor 1260)	68.1J	ug/kg	117	06/24/22 14:10	
EPA 8082A	PCB, Total	2370	ug/kg	117	06/24/22 14:10	
ASTM D2974-87	Percent Moisture	14.7	%	0.10	06/23/22 15:33	
40246631006	COMP-MA					
EPA 6010D	Arsenic	4.6	mg/kg	2.7	06/21/22 21:16	
EPA 6010D	Barium	125	mg/kg	0.54	06/21/22 21:16	
EPA 6010D	Cadmium	0.32J	mg/kg	0.54	06/21/22 21:16	
EPA 6010D	Chromium	16.7	mg/kg	1.1	06/21/22 21:16	
EPA 6010D	Lead	19.0	mg/kg	2.2	06/21/22 21:16	
EPA 6010D	Silver	0.34J	mg/kg	1.1	06/21/22 21:16	
EPA 7471	Mercury	0.015J	mg/kg	0.039	06/27/22 08:51	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	06/23/22 15:34	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

Method: EPA 8082A

Description: 8082A GCS PCB

Client: TRC - MADISON

Date: June 27, 2022

General Information:

4 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: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

Method: EPA 6010D

Description: 6010D MET ICP

Client: TRC - MADISON

Date: June 27, 2022

General Information:

2 samples were analyzed for EPA 6010D 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 3050B 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:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

Method: EPA 7471

Description: 7471 Mercury

Client: TRC - MADISON

Date: June 27, 2022

General Information:

2 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.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: CS-MA **Lab ID: 40246631001** Collected: 06/10/22 10:00 Received: 06/16/22 08:15 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
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	30.5	mg/kg	2.4	1.4	1	06/21/22 06:44	06/21/22 21:11	7440-38-2	
Barium	109	mg/kg	0.47	0.14	1	06/21/22 06:44	06/21/22 21:11	7440-39-3	
Cadmium	0.29J	mg/kg	0.47	0.13	1	06/21/22 06:44	06/21/22 21:11	7440-43-9	
Chromium	13.6	mg/kg	0.95	0.26	1	06/21/22 06:44	06/21/22 21:11	7440-47-3	
Lead	7.8	mg/kg	1.9	0.57	1	06/21/22 06:44	06/21/22 21:11	7439-92-1	
Selenium	<1.2	mg/kg	3.8	1.2	1	06/21/22 06:44	06/21/22 21:11	7782-49-2	
Silver	<0.29	mg/kg	0.95	0.29	1	06/21/22 06:44	06/21/22 21:11	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.010	mg/kg	0.036	0.010	1	06/24/22 09:11	06/27/22 08:44	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.9	%	0.10	0.10	1		06/23/22 15:33		

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: MA-C1 **Lab ID: 40246631002** Collected: 06/10/22 10:35 Received: 06/16/22 08:15 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-1016 (Aroclor 1016)	<17.9	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.9	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.9	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.9	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	53469-21-9	
PCB-1248 (Aroclor 1248)	<17.9	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	12672-29-6	
PCB-1254 (Aroclor 1254)	118	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	11097-69-1	
PCB-1260 (Aroclor 1260)	72.2	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	11096-82-5	
PCB, Total	190	ug/kg	58.9	17.9	1	06/24/22 00:30	06/24/22 13:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	50-99		1	06/24/22 00:30	06/24/22 13:04	877-09-8	
Decachlorobiphenyl (S)	81	%	38-95		1	06/24/22 00:30	06/24/22 13:04	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.9	%	0.10	0.10	1		06/23/22 15:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: MA-C2 **Lab ID: 40246631003** Collected: 06/15/22 12:00 Received: 06/16/22 08:15 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-1016 (Aroclor 1016)	<69.3	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<69.3	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<69.3	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	11141-16-5	
PCB-1242 (Aroclor 1242)	3220	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<69.3	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	12672-29-6	
PCB-1254 (Aroclor 1254)	<69.3	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	11097-69-1	
PCB-1260 (Aroclor 1260)	108J	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	11096-82-5	
PCB, Total	3330	ug/kg	228	69.3	4	06/24/22 00:30	06/24/22 13:26	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	50-99		4	06/24/22 00:30	06/24/22 13:26	877-09-8	
Decachlorobiphenyl (S)	81	%	38-95		4	06/24/22 00:30	06/24/22 13:26	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	12.1	%	0.10	0.10	1		06/23/22 15:33		

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: MA-C3 **Lab ID: 40246631004** Collected: 06/10/22 12:35 Received: 06/16/22 08:15 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-1016 (Aroclor 1016)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	53469-21-9	
PCB-1248 (Aroclor 1248)	789	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	12672-29-6	
PCB-1254 (Aroclor 1254)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<17.1	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	11096-82-5	
PCB, Total	789	ug/kg	56.2	17.1	1	06/24/22 00:30	06/24/22 13:48	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	50-99		1	06/24/22 00:30	06/24/22 13:48	877-09-8	
Decachlorobiphenyl (S)	84	%	38-95		1	06/24/22 00:30	06/24/22 13:48	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	11.2	%	0.10	0.10	1		06/23/22 15:33		

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: MA-C4 **Lab ID: 40246631005** Collected: 06/15/22 12:05 Received: 06/16/22 08:15 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-1016 (Aroclor 1016)	<35.7	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	12674-11-2	
PCB-1221 (Aroclor 1221)	<35.7	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	11104-28-2	
PCB-1232 (Aroclor 1232)	<35.7	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	11141-16-5	
PCB-1242 (Aroclor 1242)	<35.7	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	53469-21-9	
PCB-1248 (Aroclor 1248)	2300	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	12672-29-6	
PCB-1254 (Aroclor 1254)	<35.7	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	11097-69-1	
PCB-1260 (Aroclor 1260)	68.1J	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	11096-82-5	
PCB, Total	2370	ug/kg	117	35.7	2	06/24/22 00:30	06/24/22 14:10	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	50-99		2	06/24/22 00:30	06/24/22 14:10	877-09-8	
Decachlorobiphenyl (S)	82	%	38-95		2	06/24/22 00:30	06/24/22 14:10	2051-24-3	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	14.7	%	0.10	0.10	1		06/23/22 15:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Sample: COMP-MA **Lab ID: 40246631006** Collected: 06/15/22 12:10 Received: 06/16/22 08:15 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
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	4.6	mg/kg	2.7	1.6	1	06/21/22 06:44	06/21/22 21:16	7440-38-2	
Barium	125	mg/kg	0.54	0.16	1	06/21/22 06:44	06/21/22 21:16	7440-39-3	
Cadmium	0.32J	mg/kg	0.54	0.14	1	06/21/22 06:44	06/21/22 21:16	7440-43-9	
Chromium	16.7	mg/kg	1.1	0.30	1	06/21/22 06:44	06/21/22 21:16	7440-47-3	
Lead	19.0	mg/kg	2.2	0.65	1	06/21/22 06:44	06/21/22 21:16	7439-92-1	
Selenium	<1.4	mg/kg	4.4	1.4	1	06/21/22 06:44	06/21/22 21:16	7782-49-2	
Silver	0.34J	mg/kg	1.1	0.33	1	06/21/22 06:44	06/21/22 21:16	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.015J	mg/kg	0.039	0.011	1	06/24/22 09:11	06/27/22 08:51	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	12.7	%	0.10	0.10	1		06/23/22 15:34		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

QC Batch: 419296 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246631001, 40246631006

METHOD BLANK: 2414522 Matrix: Solid

Associated Lab Samples: 40246631001, 40246631006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	06/27/22 08:39	

LABORATORY CONTROL SAMPLE: 2414523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.83	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2414524 2414525

Parameter	Units	2414524		2414525		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40246631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/kg	<0.010	0.84	0.85	0.80	0.79	95	94	85-115	0	20	

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QUALITY CONTROL DATA

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

QC Batch: 418875 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40246631001, 40246631006

METHOD BLANK: 2412213 Matrix: Solid
Associated Lab Samples: 40246631001, 40246631006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	06/21/22 20:53	
Barium	mg/kg	<0.15	0.50	06/21/22 20:53	
Cadmium	mg/kg	<0.13	0.50	06/21/22 20:53	
Chromium	mg/kg	<0.28	1.0	06/21/22 20:53	
Lead	mg/kg	<0.60	2.0	06/21/22 20:53	
Selenium	mg/kg	<1.3	4.0	06/21/22 20:53	
Silver	mg/kg	<0.31	1.0	06/21/22 20:53	

LABORATORY CONTROL SAMPLE: 2412214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	24.7	99	80-120	
Barium	mg/kg	25	25.2	101	80-120	
Cadmium	mg/kg	25	25.2	101	80-120	
Chromium	mg/kg	25	24.8	99	80-120	
Lead	mg/kg	25	25.9	104	80-120	
Selenium	mg/kg	25	25.6	102	80-120	
Silver	mg/kg	12.5	11.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2412215 2412216

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246671003 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/kg	<2.0	34.5	34.6	33.0	34.5	95	99	75-125	4	20
Barium	mg/kg	76.9	34.5	34.6	106	114	84	107	75-125	7	20
Cadmium	mg/kg	0.26J	34.5	34.6	34.9	35.4	100	102	75-125	1	20
Chromium	mg/kg	24.5	34.5	34.6	54.9	61.2	88	106	75-125	11	20
Lead	mg/kg	5.0	34.5	34.6	39.8	40.6	101	103	75-125	2	20
Selenium	mg/kg	<1.8	34.5	34.6	35.2	36.1	102	104	75-125	3	20
Silver	mg/kg	<0.42	17.2	17.2	16.6	16.8	95	96	75-125	1	20

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QUALITY CONTROL DATA

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

QC Batch: 419290 Analysis Method: EPA 8082A
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40246631002, 40246631003, 40246631004, 40246631005

METHOD BLANK: 2414502 Matrix: Solid
Associated Lab Samples: 40246631002, 40246631003, 40246631004, 40246631005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	06/24/22 10:52	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	06/24/22 10:52	
Decachlorobiphenyl (S)	%	94	38-95	06/24/22 10:52	
Tetrachloro-m-xylene (S)	%	99	50-99	06/24/22 10:52	

LABORATORY CONTROL SAMPLE: 2414503

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	448	90	71-104	
Decachlorobiphenyl (S)	%			87	38-95	
Tetrachloro-m-xylene (S)	%			90	50-99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2414504 2414505

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40246639001 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<45.5			<45.6	<45.6					20
PCB-1221 (Aroclor 1221)	ug/kg	<45.5			<45.6	<45.6					20
PCB-1232 (Aroclor 1232)	ug/kg	<45.5			<45.6	<45.6					20
PCB-1242 (Aroclor 1242)	ug/kg	<45.5			<45.6	<45.6					20
PCB-1248 (Aroclor 1248)	ug/kg	1370			1490	1370			8		20
PCB-1254 (Aroclor 1254)	ug/kg	1470			1540	1880			20		20
PCB-1260 (Aroclor 1260)	ug/kg	294	500	499	668	702	75	82	42-109	5	20
Decachlorobiphenyl (S)	%						86	83	38-95		
Tetrachloro-m-xylene (S)	%						90	86	50-99		

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QUALITY CONTROL DATA

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

QC Batch:	419271	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: 40246631001, 40246631002, 40246631003, 40246631004, 40246631005, 40246631006

SAMPLE DUPLICATE: 2414329

Parameter	Units	40246528005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.8	4.0	6	10	

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QUALIFIERS

Project: 470140 MKC CONCRETE/SOIL SAMP

Pace Project No.: 40246631

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 470140 MKC CONCRETE/SOIL SAMP
Pace Project No.: 40246631

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40246631002	MA-C1	EPA 3541	419290	EPA 8082A	419291
40246631003	MA-C2	EPA 3541	419290	EPA 8082A	419291
40246631004	MA-C3	EPA 3541	419290	EPA 8082A	419291
40246631005	MA-C4	EPA 3541	419290	EPA 8082A	419291
40246631001	CS-MA	EPA 3050B	418875	EPA 6010D	418981
40246631006	COMP-MA	EPA 3050B	418875	EPA 6010D	418981
40246631001	CS-MA	EPA 7471	419296	EPA 7471	419329
40246631006	COMP-MA	EPA 7471	419296	EPA 7471	419329
40246631001	CS-MA	ASTM D2974-87	419271		
40246631002	MA-C1	ASTM D2974-87	419271		
40246631003	MA-C2	ASTM D2974-87	419271		
40246631004	MA-C3	ASTM D2974-87	419271		
40246631005	MA-C4	ASTM D2974-87	419271		
40246631006	COMP-MA	ASTM D2974-87	419271		

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

CHAIN OF CUSTODY

No. 13009

Page: 1 of 1

40246631

Project Number: 470140				PO Number:				Lab Work Order #:				Report To: Andrew Stehn						
Project Name: MKC Concrete/Soil Sampling				Preservation Codes				Company: TRC				Address 1: 708 Heartland Trail Suite 3000						
Project Location (City, State): Madison, WI				Analyses Requested				Address 2: Madison, WI 53717				E-mail Address: astehn@trccompanies.com						
Turn Around (check one): <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush				Matrix	Total # of Containers	Metals	PCBs						Invoice To:					
If Rush, Report Due Date:																Company: Same as above		
Sampled By (Print): Ben Wuchholz																Address 1:		
							Address 2:											
Sample Description		Collection		Matrix	Total # of Containers	Metals	PCBs						Comments	Lab ID	Lab Receipt Time			
		Date	Time															
CS-MA		6/10/22	10:00	O	1	X								001				
MA-C1		6/10/22	10:35	S	1		X							002				
MA-C2		6/15/22	12:00	S	1		X							003				
MA-C3		6/10/22	12:35	S	1		X							004				
MA-C4		6/15/22	12:05	S	1		X							005				
COMP-MA		6/15/22	12:10	S	1	X								0010				
Preservation Codes A=None B=HCL C=H ₂ SO 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: Ben Wuchholz (TRC) Relinquished By: Jessica O'Shea				Date: 6/15/22	Time: 16:20	Received By: Jessica O'Shea		Date: 6/15/22	Time: 16:20							
		Custody Seal: <input type="checkbox"/> NA <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact				Shipped Via:	Receipt Temp:	Thermometer #/ Exp. Date:		Temp Blank: <input type="checkbox"/> Y <input type="checkbox"/> N								

CS Logistics

6/16/22 0815 Tamara PHS pace 6/16/22 0815

Client Name: TPL
 Project # 4102110631

Sample Preservation Receipt Form

All containers needing preservation have been checked and noted below: Yes No N/A
 Lab Lot# of pH paper: _____ Lab Std #ID of preservation (if pH adjusted): _____

Initial when completed: _____ Date/Time: _____

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)
001	AG1U	BP1U	VG9A	JGFU	SP5T							2.5 / 5 / 10
002	BG1U	BP3U	DG9T	JG9U	ZPLC							2.5 / 5 / 10
003	AG1H	BP3B	VG9U	WGFU	GN							2.5 / 5 / 10
004	AG4S	BP3N	VG9H	WPFU								2.5 / 5 / 10
005	AG4U	BP3S	VG9M									2.5 / 5 / 10
006	AG5U		VG9D									2.5 / 5 / 10
007	AG2S											2.5 / 5 / 10
008	BG3U											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


SP 011022

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, Wt DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes 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			

Sample Condition Upon Receipt Form (SCUR)

Client Name: TBC
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: _____
WO# : 40246631

 40246631

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 - 117 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 7.5 / Corr: 3
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 10/16/22 / Initials: TP
 Labeled By Initials: mlt

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. <u>ACC</u> <u>TP 10/16/22</u>
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 & <u>signature</u> on COC:	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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: _____