

From: Vater, Katherine <KVater@trccompanies.com>
Sent: Wednesday, March 20, 2024 1:16 PM
To: Ramanauskas, Peter
Cc: Beedle, Michael; Lampo, Luke W - DNR; Mahlek Hamdan; bwachholz; Stehn, Andrew
Subject: RE: Madison-Kipp: Interior Floor Modifications notification
Attachments: 02.23.2024_MKC_Interior Manufacturing Floor Modifications_BRRTS No. 02-13-578014.pdf; 40274898_frc.pdf

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Peter –

On February 28, 2024, TRC, on behalf of MKC, completed concrete sampling as outlined in the February 23, 2024 notification letter. As discussed in the letter there are three areas (Area 2024-1, Area 2024-2, Area 2024-3) where MKC plans to conduct concrete repair in the future. Each area was divided into sub-areas and individual samples were collected and composited from each sub-area. Overall, 4 composite samples were collected from each area for a total of 12 composite samples. Samples were analyzed for PCBs and metals for waste characterization purposes.

The attached laboratory report includes the results for the 12 composite samples of concrete. The maximum concentration of total PCBs in any one composite concrete samples was 5 mg/kg. TRC applied the adjustment for the PCB TSCA limit (50 mg/kg / 4 sub samples = 12.5 mg /kg) and no composite sample exceeded the adjusted limit, and therefore no individual samples were analyzed. Based on results, the concrete will be disposed of at a facility licensed to accept concrete with PCBs below the TSCA limit (< 50 mg/kg).

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

Katherine Vater, PE (WI)
Senior Project Manager
T 608-826-3663

From: Vater, Katherine

Sent: Friday, February 23, 2024 9:09 AM

To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>

Cc: Beedle, Michael <beedle.michael@epa.gov>; luke.lampo@wisconsin.gov; Mahlek Hamdan <mhamdan@madison-kipp.com>; Wachholz, Benjamin <BWachholz@trccompanies.com>; Stehn, Andrew <AStehn@trccompanies.com>

Subject: Madison-Kipp: Interior Floor Modifications notification

Peter –

Please see attached notification of Madison-Kipp’s plan for concrete floor repair in their facility at 201 Waubesa Street, Madison, WI.

Thanks,
Katherine

Katherine Vater, PE (WI)
Senior Project Manager



999 Fourier Drive, Suite 101, Madison, WI 53717

T 608-826-3663 | C 608-807-8968 | kvater@trccompanies.com

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February 23, 2024

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
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin
Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Dear Mr. Ramanauskas:

Madison-Kipp Corporation (MKC) plans to conduct concrete improvement work at their 201 Waubesa Street Facility (Site) as shown in Attachment 1. MKC is completing concrete repair work in existing sections of floor and planning to install a new furnace.

There are three sections of concrete being replaced:

1. Area 2024-1 – Shipping Floor: The area measures approximately 14-feet by 20-feet and is located along the eastern wall of the facility. This area will be divided into four sub-areas for sampling (approximately 7-feet by 10-feet).
2. Area 2024-2 – Storage Floor: The area measures approximately 15-feet by 20-feet and is located along the eastern side of the facility. This area will be divided into four sub-areas for sampling (approximately 7.5-feet by 10-feet)
3. Area 2024-3 – Furnace Footing/Floor: The area measures approximately 16-feet by 12-feet and is located near a furnace on the eastern side of the facility. This area will be divided into two sub-areas for sampling (approximately 8-feet by 12-feet).

In order to characterize the existing concrete floor for waste disposal, TRC plans to collect one composite sample from each sub-area from four holes cored in each corner of the sub-area, composited equally based on weight, and sent for laboratory analysis. The composite samples of concrete will be analyzed for PCBs (EPA Method 8082) and TCLP RCRA 8 metals (EPA Methods 6010 and 7470) for waste characterization, consistent with previous sampling and analysis completed at the facility. The analytical results for the composite samples will be provided when available.

No soil will be removed during this work because the scope is limited to concrete repair/replacement.

The concrete removed as part of this work will be disposed of at a licensed disposal facility able to accept the waste. A summary of the work and disposal documentation will be provided as part of the semi-annual report for the facility covering this period (January – June 2024).

Waste characterization sampling is tentatively scheduled for February 2024 and the work will follow once analytical data is available and based on the contractor's schedule. This letter serves as notification of the planned work in the facility. The planned work is consistent with the Cap Maintenance Plan in place at the site that requires that concrete repair/replacement within the MKC

Mr. Peter Ramanauskas
U.S. Environmental Protection Agency
February 23, 2024
Page 2

facility will be handled with agency notification, composite sampling for waste characterization, analytical data review, and off-site disposal at a licensed facility.

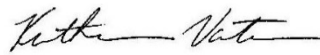
If you have any questions or comments, please feel free to contact Ben Wachholz (608-354-3923) or Katherine Vater (608-826-3663).

Sincerely,

TRC



Ben Wachholz, P.E.
Senior Project Engineer

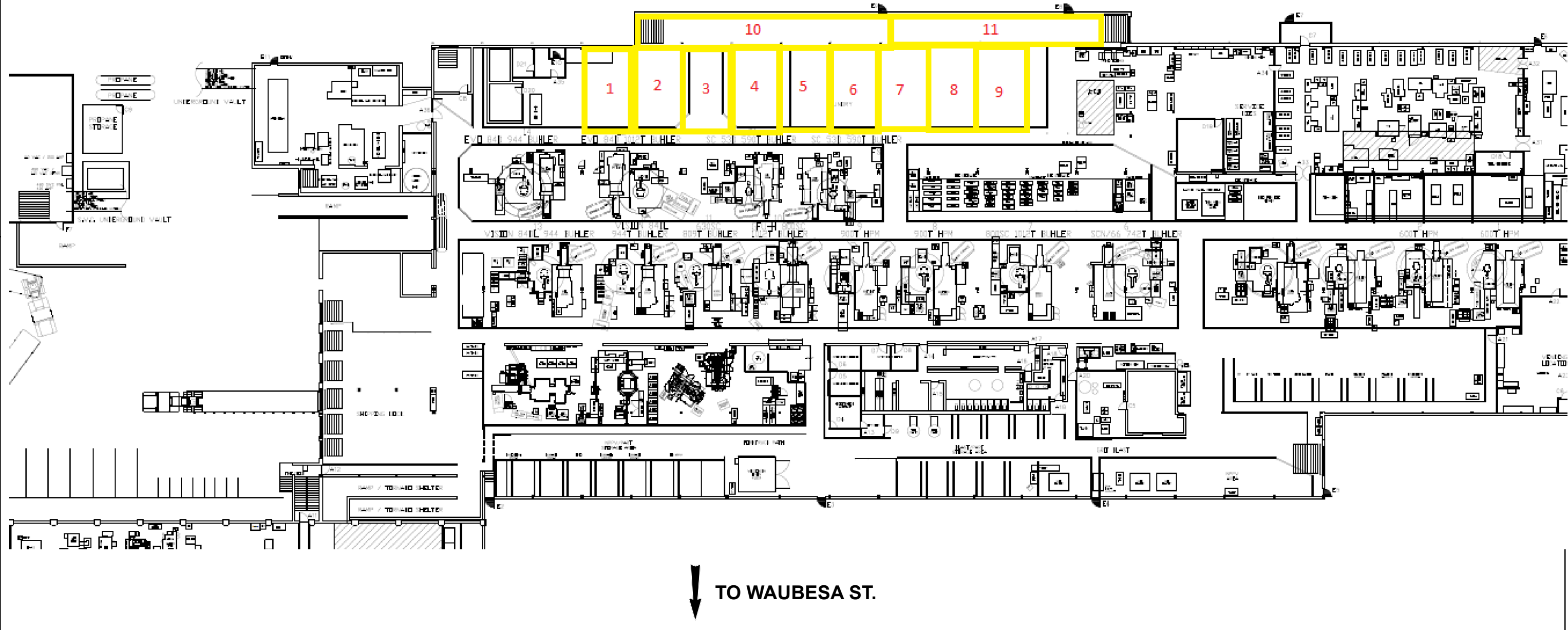


Katherine Vater, P.E.
Senior Project Manager

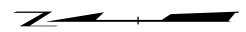
Attachments: 1. Proposed Concrete Removal Area


cc: Mahlek Hamden, Madison-Kipp Corporation (electronic)
Michael Beedle, U.S. EPA (electronic)
Luke Lampo, WDNR (electronic)

Attachment 1
Proposed Concrete Removal Area



- 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	



March 11, 2024

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2024. 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
Ben Wachholz, TRC Madison



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

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

South Carolina Certification #: 83006001

Texas Certification #: T104704529-21-8

Virginia VELAP Certification ID: 11873

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-21-00008

Federal Fish & Wildlife Permit #: 51774A

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SAMPLE SUMMARY

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40274898001	2024-1-COMP-1	Solid	02/28/24 16:25	03/01/24 09:35
40274898002	2024-1-COMP-2	Solid	02/28/24 16:33	03/01/24 09:35
40274898003	2024-1-COMP-3	Solid	02/28/24 16:40	03/01/24 09:35
40274898004	2024-1-COMP-4	Solid	02/28/24 16:45	03/01/24 09:35
40274898005	2024-2-COMP-1	Solid	02/28/24 10:49	03/01/24 09:35
40274898006	2024-2-COMP-2	Solid	02/28/24 11:25	03/01/24 09:35
40274898007	2024-2-COMP-3	Solid	02/28/24 11:55	03/01/24 09:35
40274898008	2024-2-COMP-4	Solid	02/28/24 15:35	03/01/24 09:35
40274898009	2024-3-COMP-1	Solid	02/28/24 15:47	03/01/24 09:35
40274898010	2024-3-COMP-2	Solid	02/28/24 15:59	03/01/24 09:35
40274898011	2024-3-COMP-3	Solid	02/28/24 16:07	03/01/24 09:35
40274898012	2024-3-COMP-4	Solid	02/28/24 16:15	03/01/24 09:35

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SAMPLE ANALYTE COUNT

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40274898001	2024-1-COMP-1	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898002	2024-1-COMP-2	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898003	2024-1-COMP-3	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898004	2024-1-COMP-4	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898005	2024-2-COMP-1	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898006	2024-2-COMP-2	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898007	2024-2-COMP-3	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898008	2024-2-COMP-4	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898009	2024-3-COMP-1	EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
40274898010	2024-3-COMP-2	EPA 8082A	BLM	10

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SAMPLE ANALYTE COUNT

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40274898011	2024-3-COMP-3	EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1
		EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
40274898012	2024-3-COMP-4	ASTM D2974-87	MJV	1
		EPA 8082A	BLM	10
		EPA 6010D	SIS	8
		EPA 7471	RZA	1
		ASTM D2974-87	MJV	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40274898001	2024-1-COMP-1					
EPA 8082A	PCB, Total	1740	ug/kg	103	03/06/24 06:57	
EPA 8082A	PCB-1248 (Aroclor 1248)	1740	ug/kg	103	03/06/24 06:57	
EPA 6010D	Barium	29.1	mg/kg	0.99	03/04/24 15:10	
EPA 6010D	Chromium	10.4	mg/kg	2.0	03/04/24 15:10	
EPA 6010D	Lead	5.7	mg/kg	4.0	03/04/24 15:10	
EPA 6010D	Total Hardness by 2340B	567000	mg/kg		03/04/24 15:10	
ASTM D2974-87	Percent Moisture	3.2	%	0.10	03/01/24 14:26	
40274898002	2024-1-COMP-2					
EPA 8082A	PCB, Total	4410	ug/kg	260	03/06/24 07:18	
EPA 8082A	PCB-1248 (Aroclor 1248)	4410	ug/kg	260	03/06/24 07:18	
EPA 6010D	Arsenic	2.4J	mg/kg	2.5	03/04/24 14:46	
EPA 6010D	Barium	31.2	mg/kg	0.50	03/04/24 14:46	
EPA 6010D	Chromium	11.1	mg/kg	1.0	03/04/24 14:46	
EPA 6010D	Lead	3.5	mg/kg	2.0	03/04/24 14:46	
EPA 6010D	Total Hardness by 2340B	689000	mg/kg		03/04/24 16:18	
ASTM D2974-87	Percent Moisture	3.9	%	0.10	03/01/24 14:26	
40274898003	2024-1-COMP-3					
EPA 8082A	PCB, Total	4260	ug/kg	262	03/06/24 07:39	
EPA 8082A	PCB-1248 (Aroclor 1248)	4260	ug/kg	262	03/06/24 07:39	
EPA 6010D	Arsenic	3.2	mg/kg	2.5	03/04/24 14:48	
EPA 6010D	Barium	41.2	mg/kg	0.50	03/04/24 14:48	
EPA 6010D	Chromium	14.9	mg/kg	1.0	03/04/24 14:48	
EPA 6010D	Lead	3.5	mg/kg	2.0	03/04/24 14:48	
EPA 6010D	Total Hardness by 2340B	541000	mg/kg		03/04/24 16:20	
ASTM D2974-87	Percent Moisture	4.7	%	0.10	03/01/24 14:26	
40274898004	2024-1-COMP-4					
EPA 8082A	PCB, Total	5000	ug/kg	262	03/06/24 11:33	
EPA 8082A	PCB-1248 (Aroclor 1248)	5000	ug/kg	262	03/06/24 11:33	
EPA 6010D	Arsenic	2.7	mg/kg	2.6	03/04/24 14:50	
EPA 6010D	Barium	33.9	mg/kg	0.51	03/04/24 14:50	
EPA 6010D	Chromium	11.0	mg/kg	1.0	03/04/24 14:50	
EPA 6010D	Lead	2.0J	mg/kg	2.0	03/04/24 14:50	
EPA 6010D	Total Hardness by 2340B	656000	mg/kg		03/04/24 16:22	
ASTM D2974-87	Percent Moisture	4.2	%	0.10	03/01/24 14:27	
40274898005	2024-2-COMP-1					
EPA 8082A	PCB, Total	16.8J	ug/kg	50.9	03/06/24 11:54	
EPA 8082A	PCB-1248 (Aroclor 1248)	16.8J	ug/kg	50.9	03/06/24 11:54	
EPA 6010D	Arsenic	3.4	mg/kg	2.4	03/04/24 14:52	
EPA 6010D	Barium	41.7	mg/kg	0.49	03/04/24 14:52	
EPA 6010D	Cadmium	0.27J	mg/kg	0.49	03/04/24 14:52	
EPA 6010D	Chromium	14.0	mg/kg	0.97	03/04/24 14:52	
EPA 6010D	Lead	4.3	mg/kg	1.9	03/04/24 14:52	
EPA 6010D	Total Hardness by 2340B	624000	mg/kg		03/04/24 16:23	
ASTM D2974-87	Percent Moisture	1.9	%	0.10	03/01/24 14:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40274898006	2024-2-COMP-2					
EPA 8082A	PCB, Total	17.7J	ug/kg	51.2	03/06/24 08:43	
EPA 8082A	PCB-1248 (Aroclor 1248)	17.7J	ug/kg	51.2	03/06/24 08:43	
EPA 6010D	Arsenic	3.4J	mg/kg	4.9	03/04/24 15:14	D3
EPA 6010D	Barium	93.9	mg/kg	0.99	03/04/24 15:14	
EPA 6010D	Chromium	21.0	mg/kg	2.0	03/04/24 15:14	
EPA 6010D	Lead	3.5J	mg/kg	3.9	03/04/24 15:14	D3
EPA 6010D	Total Hardness by 2340B	591000	mg/kg		03/04/24 15:14	
ASTM D2974-87	Percent Moisture	2.6	%	0.10	03/01/24 14:27	
40274898007	2024-2-COMP-3					
EPA 8082A	PCB, Total	31.9J	ug/kg	50.7	03/06/24 09:04	
EPA 8082A	PCB-1248 (Aroclor 1248)	31.9J	ug/kg	50.7	03/06/24 09:04	
EPA 6010D	Arsenic	3.3	mg/kg	2.3	03/04/24 14:55	
EPA 6010D	Barium	33.6	mg/kg	0.47	03/04/24 14:55	
EPA 6010D	Cadmium	0.21J	mg/kg	0.47	03/04/24 14:55	
EPA 6010D	Chromium	10.3	mg/kg	0.93	03/04/24 14:55	
EPA 6010D	Lead	3.0	mg/kg	1.9	03/04/24 14:55	
EPA 6010D	Total Hardness by 2340B	722000	mg/kg		03/04/24 16:25	
ASTM D2974-87	Percent Moisture	1.1	%	0.10	03/01/24 14:27	
40274898008	2024-2-COMP-4					
EPA 6010D	Arsenic	3.0	mg/kg	2.5	03/04/24 14:57	
EPA 6010D	Barium	58.6	mg/kg	0.50	03/04/24 14:57	
EPA 6010D	Cadmium	0.16J	mg/kg	0.50	03/04/24 14:57	
EPA 6010D	Chromium	12.1	mg/kg	1.0	03/04/24 14:57	
EPA 6010D	Lead	3.4	mg/kg	2.0	03/04/24 14:57	
EPA 6010D	Total Hardness by 2340B	674000	mg/kg		03/04/24 16:27	
ASTM D2974-87	Percent Moisture	1.8	%	0.10	03/01/24 14:27	
40274898009	2024-3-COMP-1					
EPA 8082A	PCB, Total	574	ug/kg	51.2	03/06/24 09:47	
EPA 8082A	PCB-1248 (Aroclor 1248)	574	ug/kg	51.2	03/06/24 09:47	
EPA 6010D	Arsenic	4.7	mg/kg	2.4	03/04/24 14:59	
EPA 6010D	Barium	43.6	mg/kg	0.48	03/04/24 14:59	
EPA 6010D	Chromium	15.7	mg/kg	0.95	03/04/24 14:59	
EPA 6010D	Lead	4.5	mg/kg	1.9	03/04/24 14:59	
EPA 6010D	Total Hardness by 2340B	567000	mg/kg		03/04/24 16:29	
ASTM D2974-87	Percent Moisture	2.6	%	0.10	03/01/24 14:27	
40274898010	2024-3-COMP-2					
EPA 8082A	PCB, Total	664	ug/kg	51.4	03/06/24 10:08	
EPA 8082A	PCB-1248 (Aroclor 1248)	664	ug/kg	51.4	03/06/24 10:08	
EPA 6010D	Arsenic	2.2J	mg/kg	2.5	03/04/24 15:04	
EPA 6010D	Barium	39.8	mg/kg	0.50	03/04/24 15:04	
EPA 6010D	Chromium	11.4	mg/kg	0.99	03/04/24 15:04	
EPA 6010D	Lead	2.8	mg/kg	2.0	03/04/24 15:04	
EPA 6010D	Total Hardness by 2340B	578000	mg/kg		03/04/24 16:31	
ASTM D2974-87	Percent Moisture	2.6	%	0.10	03/01/24 14:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40274898011	2024-3-COMP-3					
EPA 8082A	PCB, Total	850	ug/kg	51.2	03/06/24 10:29	
EPA 8082A	PCB-1248 (Aroclor 1248)	850	ug/kg	51.2	03/06/24 10:29	
EPA 6010D	Arsenic	2.6	mg/kg	2.5	03/04/24 15:06	
EPA 6010D	Barium	49.5	mg/kg	0.50	03/04/24 15:06	
EPA 6010D	Cadmium	0.30J	mg/kg	0.50	03/04/24 15:06	
EPA 6010D	Chromium	13.1	mg/kg	1.0	03/04/24 15:06	
EPA 6010D	Lead	3.9	mg/kg	2.0	03/04/24 15:06	
EPA 6010D	Total Hardness by 2340B	634000	mg/kg		03/04/24 16:33	
ASTM D2974-87	Percent Moisture	2.5	%	0.10	03/01/24 14:27	
40274898012	2024-3-COMP-4					
EPA 8082A	PCB, Total	861	ug/kg	51.0	03/06/24 10:50	
EPA 8082A	PCB-1248 (Aroclor 1248)	861	ug/kg	51.0	03/06/24 10:50	
EPA 6010D	Arsenic	2.5J	mg/kg	2.5	03/04/24 15:08	
EPA 6010D	Barium	46.2	mg/kg	0.50	03/04/24 15:08	
EPA 6010D	Cadmium	0.26J	mg/kg	0.50	03/04/24 15:08	
EPA 6010D	Chromium	12.3	mg/kg	1.0	03/04/24 15:08	
EPA 6010D	Lead	3.4	mg/kg	2.0	03/04/24 15:08	
EPA 6010D	Total Hardness by 2340B	559000	mg/kg		03/04/24 16:35	
ASTM D2974-87	Percent Moisture	2.0	%	0.10	03/01/24 14:28	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Method: EPA 8082A

Description: 8082A GCS PCB

Client: TRC - MADISON

Date: March 11, 2024

General Information:

12 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: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Method: EPA 6010D

Description: 6010D MET ICP

Client: TRC - MADISON

Date: March 11, 2024

General Information:

12 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.

QC Batch: 468241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40274894001

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

- MS (Lab ID: 2682643)
 - Barium
 - Chromium
- MSD (Lab ID: 2682644)
 - Barium

Additional Comments:

Analyte Comments:

QC Batch: 468241

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

- 2024-1-COMP-1 (Lab ID: 40274898001)
 - Silver
 - Arsenic
 - Cadmium

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PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Method: EPA 6010D

Description: 6010D MET ICP

Client: TRC - MADISON

Date: March 11, 2024

Analyte Comments:

QC Batch: 468241

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

- 2024-1-COMP-1 (Lab ID: 40274898001)
 - Selenium
- 2024-2-COMP-2 (Lab ID: 40274898006)
 - Silver
 - Arsenic
 - Cadmium
 - Lead
 - Selenium

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PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Method: EPA 7471

Description: 7471 Mercury

Client: TRC - MADISON

Date: March 11, 2024

General Information:

12 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: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-1-COMP-1 Lab ID: 40274898001 Collected: 02/28/24 16:25 Received: 03/01/24 09:35 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	1740	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	1336-36-3	
PCB-1016 (Aroclor 1016)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	12674-11-2	
PCB-1221 (Aroclor 1221)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	11104-28-2	
PCB-1232 (Aroclor 1232)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	11141-16-5	
PCB-1242 (Aroclor 1242)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	53469-21-9	
PCB-1248 (Aroclor 1248)	1740	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	12672-29-6	
PCB-1254 (Aroclor 1254)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	11097-69-1	
PCB-1260 (Aroclor 1260)	<31.4	ug/kg	103	31.4	2	03/05/24 12:00	03/06/24 06:57	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	69	%	44-120		2	03/05/24 12:00	03/06/24 06:57	877-09-8	
Decachlorobiphenyl (S)	61	%	34-120		2	03/05/24 12:00	03/06/24 06:57	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	<2.9	mg/kg	5.0	2.9	2	03/04/24 06:14	03/04/24 15:10	7440-38-2	D3
Barium	29.1	mg/kg	0.99	0.30	2	03/04/24 06:14	03/04/24 15:10	7440-39-3	
Cadmium	<0.26	mg/kg	0.99	0.26	2	03/04/24 06:14	03/04/24 15:10	7440-43-9	D3
Chromium	10.4	mg/kg	2.0	0.55	2	03/04/24 06:14	03/04/24 15:10	7440-47-3	
Lead	5.7	mg/kg	4.0	1.2	2	03/04/24 06:14	03/04/24 15:10	7439-92-1	
Selenium	<2.6	mg/kg	7.9	2.6	2	03/04/24 06:14	03/04/24 15:10	7782-49-2	D3
Silver	<0.61	mg/kg	2.0	0.61	2	03/04/24 06:14	03/04/24 15:10	7440-22-4	D3
Total Hardness by 2340B	567000	mg/kg			2	03/04/24 06:14	03/04/24 15:10		
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	03/08/24 11:05	03/11/24 10:17	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	3.2	%	0.10	0.10	1		03/01/24 14:26		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-1-COMP-2 Lab ID: 40274898002 Collected: 02/28/24 16:33 Received: 03/01/24 09:35 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	4410	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	1336-36-3	
PCB-1016 (Aroclor 1016)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	12674-11-2	
PCB-1221 (Aroclor 1221)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	11104-28-2	
PCB-1232 (Aroclor 1232)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	11141-16-5	
PCB-1242 (Aroclor 1242)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	53469-21-9	
PCB-1248 (Aroclor 1248)	4410	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	12672-29-6	
PCB-1254 (Aroclor 1254)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	11097-69-1	
PCB-1260 (Aroclor 1260)	<79.3	ug/kg	260	79.3	5	03/05/24 12:00	03/06/24 07:18	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	73	%	44-120		5	03/05/24 12:00	03/06/24 07:18	877-09-8	
Decachlorobiphenyl (S)	68	%	34-120		5	03/05/24 12:00	03/06/24 07:18	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.4J	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 14:46	7440-38-2	
Barium	31.2	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 14:46	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 14:46	7440-43-9	
Chromium	11.1	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 14:46	7440-47-3	
Lead	3.5	mg/kg	2.0	0.60	1	03/04/24 06:14	03/04/24 14:46	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 14:46	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 14:46	7440-22-4	
Total Hardness by 2340B	689000	mg/kg			2	03/04/24 06:14	03/04/24 16:18		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0093	mg/kg	0.033	0.0093	1	03/08/24 11:05	03/11/24 10:56	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	3.9	%	0.10	0.10	1		03/01/24 14:26		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-1-COMP-3 Lab ID: 40274898003 Collected: 02/28/24 16:40 Received: 03/01/24 09:35 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	4260	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	1336-36-3	
PCB-1016 (Aroclor 1016)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	12674-11-2	
PCB-1221 (Aroclor 1221)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	11104-28-2	
PCB-1232 (Aroclor 1232)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	11141-16-5	
PCB-1242 (Aroclor 1242)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	53469-21-9	
PCB-1248 (Aroclor 1248)	4260	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	12672-29-6	
PCB-1254 (Aroclor 1254)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<79.8	ug/kg	262	79.8	5	03/05/24 12:00	03/06/24 07:39	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	44-120		5	03/05/24 12:00	03/06/24 07:39	877-09-8	
Decachlorobiphenyl (S)	70	%	34-120		5	03/05/24 12:00	03/06/24 07:39	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.2	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 14:48	7440-38-2	
Barium	41.2	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 14:48	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 14:48	7440-43-9	
Chromium	14.9	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 14:48	7440-47-3	
Lead	3.5	mg/kg	2.0	0.60	1	03/04/24 06:14	03/04/24 14:48	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 14:48	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 14:48	7440-22-4	
Total Hardness by 2340B	541000	mg/kg			2	03/04/24 06:14	03/04/24 16:20		
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	03/08/24 11:05	03/11/24 10:58	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.7	%	0.10	0.10	1		03/01/24 14:26		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-1-COMP-4 Lab ID: 40274898004 Collected: 02/28/24 16:45 Received: 03/01/24 09:35 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	5000	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	1336-36-3	
PCB-1016 (Aroclor 1016)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	12674-11-2	
PCB-1221 (Aroclor 1221)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	11104-28-2	
PCB-1232 (Aroclor 1232)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	11141-16-5	
PCB-1242 (Aroclor 1242)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	53469-21-9	
PCB-1248 (Aroclor 1248)	5000	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	12672-29-6	
PCB-1254 (Aroclor 1254)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	11097-69-1	
PCB-1260 (Aroclor 1260)	<79.6	ug/kg	262	79.6	5	03/05/24 12:00	03/06/24 11:33	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	71	%	44-120		5	03/05/24 12:00	03/06/24 11:33	877-09-8	
Decachlorobiphenyl (S)	63	%	34-120		5	03/05/24 12:00	03/06/24 11:33	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.7	mg/kg	2.6	1.5	1	03/04/24 06:14	03/04/24 14:50	7440-38-2	
Barium	33.9	mg/kg	0.51	0.15	1	03/04/24 06:14	03/04/24 14:50	7440-39-3	
Cadmium	<0.14	mg/kg	0.51	0.14	1	03/04/24 06:14	03/04/24 14:50	7440-43-9	
Chromium	11.0	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 14:50	7440-47-3	
Lead	2.0J	mg/kg	2.0	0.61	1	03/04/24 06:14	03/04/24 14:50	7439-92-1	
Selenium	<1.3	mg/kg	4.1	1.3	1	03/04/24 06:14	03/04/24 14:50	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 14:50	7440-22-4	
Total Hardness by 2340B	656000	mg/kg			2	03/04/24 06:14	03/04/24 16:22		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0093	mg/kg	0.033	0.0093	1	03/08/24 11:05	03/11/24 11:00	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	4.2	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-2-COMP-1 Lab ID: 40274898005 Collected: 02/28/24 10:49 Received: 03/01/24 09:35 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	16.8J	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	53469-21-9	
PCB-1248 (Aroclor 1248)	16.8J	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 11:54	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	44-120		1	03/05/24 12:00	03/06/24 11:54	877-09-8	
Decachlorobiphenyl (S)	62	%	34-120		1	03/05/24 12:00	03/06/24 11:54	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.4	mg/kg	2.4	1.4	1	03/04/24 06:14	03/04/24 14:52	7440-38-2	
Barium	41.7	mg/kg	0.49	0.15	1	03/04/24 06:14	03/04/24 14:52	7440-39-3	
Cadmium	0.27J	mg/kg	0.49	0.13	1	03/04/24 06:14	03/04/24 14:52	7440-43-9	
Chromium	14.0	mg/kg	0.97	0.27	1	03/04/24 06:14	03/04/24 14:52	7440-47-3	
Lead	4.3	mg/kg	1.9	0.58	1	03/04/24 06:14	03/04/24 14:52	7439-92-1	
Selenium	<1.3	mg/kg	3.9	1.3	1	03/04/24 06:14	03/04/24 14:52	7782-49-2	
Silver	<0.30	mg/kg	0.97	0.30	1	03/04/24 06:14	03/04/24 14:52	7440-22-4	
Total Hardness by 2340B	624000	mg/kg			2	03/04/24 06:14	03/04/24 16:23		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0098	mg/kg	0.034	0.0098	1	03/08/24 11:05	03/11/24 11:07	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.9	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-2-COMP-2 Lab ID: 40274898006 Collected: 02/28/24 11:25 Received: 03/01/24 09:35 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	17.7J	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	53469-21-9	
PCB-1248 (Aroclor 1248)	17.7J	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 08:43	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	44-120		1	03/05/24 12:00	03/06/24 08:43	877-09-8	
Decachlorobiphenyl (S)	68	%	34-120		1	03/05/24 12:00	03/06/24 08:43	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.4J	mg/kg	4.9	2.9	2	03/04/24 06:14	03/04/24 15:14	7440-38-2	D3
Barium	93.9	mg/kg	0.99	0.30	2	03/04/24 06:14	03/04/24 15:14	7440-39-3	
Cadmium	<0.26	mg/kg	0.99	0.26	2	03/04/24 06:14	03/04/24 15:14	7440-43-9	D3
Chromium	21.0	mg/kg	2.0	0.55	2	03/04/24 06:14	03/04/24 15:14	7440-47-3	
Lead	3.5J	mg/kg	3.9	1.2	2	03/04/24 06:14	03/04/24 15:14	7439-92-1	D3
Selenium	<2.6	mg/kg	7.9	2.6	2	03/04/24 06:14	03/04/24 15:14	7782-49-2	D3
Silver	<0.61	mg/kg	2.0	0.61	2	03/04/24 06:14	03/04/24 15:14	7440-22-4	D3
Total Hardness by 2340B	591000	mg/kg			2	03/04/24 06:14	03/04/24 15:14		
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	03/08/24 11:05	03/11/24 11:10	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.6	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-2-COMP-3 Lab ID: 40274898007 Collected: 02/28/24 11:55 Received: 03/01/24 09:35 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	31.9J	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	53469-21-9	
PCB-1248 (Aroclor 1248)	31.9J	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.4	ug/kg	50.7	15.4	1	03/05/24 12:00	03/06/24 09:04	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	44-120		1	03/05/24 12:00	03/06/24 09:04	877-09-8	
Decachlorobiphenyl (S)	65	%	34-120		1	03/05/24 12:00	03/06/24 09:04	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.3	mg/kg	2.3	1.4	1	03/04/24 06:14	03/04/24 14:55	7440-38-2	
Barium	33.6	mg/kg	0.47	0.14	1	03/04/24 06:14	03/04/24 14:55	7440-39-3	
Cadmium	0.21J	mg/kg	0.47	0.12	1	03/04/24 06:14	03/04/24 14:55	7440-43-9	
Chromium	10.3	mg/kg	0.93	0.26	1	03/04/24 06:14	03/04/24 14:55	7440-47-3	
Lead	3.0	mg/kg	1.9	0.56	1	03/04/24 06:14	03/04/24 14:55	7439-92-1	
Selenium	<1.2	mg/kg	3.7	1.2	1	03/04/24 06:14	03/04/24 14:55	7782-49-2	
Silver	<0.29	mg/kg	0.93	0.29	1	03/04/24 06:14	03/04/24 14:55	7440-22-4	
Total Hardness by 2340B	722000	mg/kg			2	03/04/24 06:14	03/04/24 16:25		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0095	mg/kg	0.033	0.0095	1	03/08/24 11:05	03/11/24 11:12	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.1	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-2-COMP-4 Lab ID: 40274898008 Collected: 02/28/24 15:35 Received: 03/01/24 09:35 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	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	53469-21-9	
PCB-1248 (Aroclor 1248)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	50.9	15.5	1	03/05/24 12:00	03/06/24 09:25	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	44-120		1	03/05/24 12:00	03/06/24 09:25	877-09-8	
Decachlorobiphenyl (S)	66	%	34-120		1	03/05/24 12:00	03/06/24 09:25	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	3.0	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 14:57	7440-38-2	
Barium	58.6	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 14:57	7440-39-3	
Cadmium	0.16J	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 14:57	7440-43-9	
Chromium	12.1	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 14:57	7440-47-3	
Lead	3.4	mg/kg	2.0	0.60	1	03/04/24 06:14	03/04/24 14:57	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 14:57	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 14:57	7440-22-4	
Total Hardness by 2340B	674000	mg/kg			2	03/04/24 06:14	03/04/24 16:27		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0099	mg/kg	0.035	0.0099	1	03/08/24 11:05	03/11/24 11:14	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	1.8	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-3-COMP-1 Lab ID: 40274898009 Collected: 02/28/24 15:47 Received: 03/01/24 09:35 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	574	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	53469-21-9	
PCB-1248 (Aroclor 1248)	574	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 09:47	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	44-120		1	03/05/24 12:00	03/06/24 09:47	877-09-8	
Decachlorobiphenyl (S)	64	%	34-120		1	03/05/24 12:00	03/06/24 09:47	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	4.7	mg/kg	2.4	1.4	1	03/04/24 06:14	03/04/24 14:59	7440-38-2	
Barium	43.6	mg/kg	0.48	0.14	1	03/04/24 06:14	03/04/24 14:59	7440-39-3	
Cadmium	<0.13	mg/kg	0.48	0.13	1	03/04/24 06:14	03/04/24 14:59	7440-43-9	
Chromium	15.7	mg/kg	0.95	0.26	1	03/04/24 06:14	03/04/24 14:59	7440-47-3	
Lead	4.5	mg/kg	1.9	0.57	1	03/04/24 06:14	03/04/24 14:59	7439-92-1	
Selenium	<1.2	mg/kg	3.8	1.2	1	03/04/24 06:14	03/04/24 14:59	7782-49-2	
Silver	<0.29	mg/kg	0.95	0.29	1	03/04/24 06:14	03/04/24 14:59	7440-22-4	
Total Hardness by 2340B	567000	mg/kg			2	03/04/24 06:14	03/04/24 16:29		
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	03/08/24 11:05	03/11/24 11:17	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.6	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-3-COMP-2 Lab ID: 40274898010 Collected: 02/28/24 15:59 Received: 03/01/24 09:35 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	664	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	53469-21-9	
PCB-1248 (Aroclor 1248)	664	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.6	ug/kg	51.4	15.6	1	03/05/24 12:00	03/06/24 10:08	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	69	%	44-120		1	03/05/24 12:00	03/06/24 10:08	877-09-8	
Decachlorobiphenyl (S)	57	%	34-120		1	03/05/24 12:00	03/06/24 10:08	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.2J	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 15:04	7440-38-2	
Barium	39.8	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 15:04	7440-39-3	
Cadmium	<0.13	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 15:04	7440-43-9	
Chromium	11.4	mg/kg	0.99	0.28	1	03/04/24 06:14	03/04/24 15:04	7440-47-3	
Lead	2.8	mg/kg	2.0	0.59	1	03/04/24 06:14	03/04/24 15:04	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 15:04	7782-49-2	
Silver	<0.30	mg/kg	0.99	0.30	1	03/04/24 06:14	03/04/24 15:04	7440-22-4	
Total Hardness by 2340B	578000	mg/kg			2	03/04/24 06:14	03/04/24 16:31		
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<0.0098	mg/kg	0.034	0.0098	1	03/08/24 11:05	03/11/24 11:19	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.6	%	0.10	0.10	1		03/01/24 14:27		

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-3-COMP-3 Lab ID: 40274898011 Collected: 02/28/24 16:07 Received: 03/01/24 09:35 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	850	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	53469-21-9	
PCB-1248 (Aroclor 1248)	850	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.6	ug/kg	51.2	15.6	1	03/05/24 12:00	03/06/24 10:29	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	84	%	44-120		1	03/05/24 12:00	03/06/24 10:29	877-09-8	
Decachlorobiphenyl (S)	68	%	34-120		1	03/05/24 12:00	03/06/24 10:29	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.6	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 15:06	7440-38-2	
Barium	49.5	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 15:06	7440-39-3	
Cadmium	0.30J	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 15:06	7440-43-9	
Chromium	13.1	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 15:06	7440-47-3	
Lead	3.9	mg/kg	2.0	0.60	1	03/04/24 06:14	03/04/24 15:06	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 15:06	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 15:06	7440-22-4	
Total Hardness by 2340B	634000	mg/kg			2	03/04/24 06:14	03/04/24 16:33		
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	03/08/24 11:05	03/11/24 11:21	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.5	%	0.10	0.10	1		03/01/24 14:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Sample: 2024-3-COMP-4 Lab ID: 40274898012 Collected: 02/28/24 16:15 Received: 03/01/24 09:35 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	861	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	1336-36-3	
PCB-1016 (Aroclor 1016)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	12674-11-2	
PCB-1221 (Aroclor 1221)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	11104-28-2	
PCB-1232 (Aroclor 1232)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	11141-16-5	
PCB-1242 (Aroclor 1242)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	53469-21-9	
PCB-1248 (Aroclor 1248)	861	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	12672-29-6	
PCB-1254 (Aroclor 1254)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<15.5	ug/kg	51.0	15.5	1	03/05/24 12:00	03/06/24 10:50	11096-82-5	
Surrogates									
Tetrachloro-m-xylene (S)	70	%	44-120		1	03/05/24 12:00	03/06/24 10:50	877-09-8	
Decachlorobiphenyl (S)	57	%	34-120		1	03/05/24 12:00	03/06/24 10:50	2051-24-3	
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Green Bay									
Arsenic	2.5J	mg/kg	2.5	1.5	1	03/04/24 06:14	03/04/24 15:08	7440-38-2	
Barium	46.2	mg/kg	0.50	0.15	1	03/04/24 06:14	03/04/24 15:08	7440-39-3	
Cadmium	0.26J	mg/kg	0.50	0.13	1	03/04/24 06:14	03/04/24 15:08	7440-43-9	
Chromium	12.3	mg/kg	1.0	0.28	1	03/04/24 06:14	03/04/24 15:08	7440-47-3	
Lead	3.4	mg/kg	2.0	0.60	1	03/04/24 06:14	03/04/24 15:08	7439-92-1	
Selenium	<1.3	mg/kg	4.0	1.3	1	03/04/24 06:14	03/04/24 15:08	7782-49-2	
Silver	<0.31	mg/kg	1.0	0.31	1	03/04/24 06:14	03/04/24 15:08	7440-22-4	
Total Hardness by 2340B	559000	mg/kg			2	03/04/24 06:14	03/04/24 16:35		
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	03/08/24 11:05	03/11/24 11:24	7439-97-6	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	2.0	%	0.10	0.10	1		03/01/24 14:28		

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QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

QC Batch:	468375	Analysis Method:	EPA 7471
QC Batch Method:	EPA 7471	Analysis Description:	7471 Mercury
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

METHOD BLANK: 2683060 Matrix: Solid

Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	03/11/24 10:11	

LABORATORY CONTROL SAMPLE: 2683061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.86	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683062 2683063

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40274898001 Result	Spike Conc.	Spike Conc.	Result						
Mercury	mg/kg	<0.010	0.86	0.86	0.91	0.87	106	101	85-115	5	20

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QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

QC Batch:	468241	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012		

METHOD BLANK:	2682641	Matrix:	Solid
Associated Lab Samples:	40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	03/04/24 14:20	
Barium	mg/kg	<0.15	0.50	03/04/24 14:20	
Cadmium	mg/kg	<0.13	0.50	03/04/24 14:20	
Chromium	mg/kg	<0.28	1.0	03/04/24 14:20	
Lead	mg/kg	<0.60	2.0	03/04/24 14:20	
Selenium	mg/kg	<1.3	4.0	03/04/24 14:20	
Silver	mg/kg	<0.31	1.0	03/04/24 14:20	
Total Hardness by 2340B	mg/kg	1.1		03/04/24 14:20	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	25	25.3	101	80-120	
Barium	mg/kg	25	26.3	105	80-120	
Cadmium	mg/kg	25	26.7	107	80-120	
Chromium	mg/kg	25	26.3	105	80-120	
Lead	mg/kg	25	26.9	107	80-120	
Selenium	mg/kg	25	27.2	109	80-120	
Silver	mg/kg	12.5	13.2	106	80-120	
Total Hardness by 2340B	mg/kg		7130			

Parameter	Units	2682643		2682644		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Arsenic	mg/kg	3.4	31.3	35.2	31.4	102	103	75-125	1	20
Barium	mg/kg	61.0	31.3	132	31.4	226	175	75-125	13	20 M0
Cadmium	mg/kg	<0.17	31.3	33.3	31.4	106	108	75-125	2	20
Chromium	mg/kg	23.3	31.3	65.3	31.4	134	119	75-125	7	20 M0
Lead	mg/kg	9.1	31.3	41.9	31.4	105	109	75-125	4	20
Selenium	mg/kg	<1.6	31.3	33.1	31.4	103	104	75-125	1	20
Silver	mg/kg	<0.38	15.6	16.8	15.8	106	108	75-125	2	20
Total Hardness by 2340B	mg/kg	431000		458000		441000			4	

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QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

QC Batch:	468423	Analysis Method:	EPA 8082A
QC Batch Method:	EPA 3541	Analysis Description:	8082 GCS PCB
		Laboratory:	Pace Analytical Services - Green Bay
Associated Lab Samples:	40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012		

METHOD BLANK: 2683200 Matrix: Solid
 Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1221 (Aroclor 1221)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1232 (Aroclor 1232)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1242 (Aroclor 1242)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1248 (Aroclor 1248)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1254 (Aroclor 1254)	ug/kg	<15.2	50.0	03/06/24 01:35	
PCB-1260 (Aroclor 1260)	ug/kg	<15.2	50.0	03/06/24 01:35	
Decachlorobiphenyl (S)	%	72	34-120	03/06/24 01:35	
Tetrachloro-m-xylene (S)	%	81	44-120	03/06/24 01:35	

LABORATORY CONTROL SAMPLE: 2683201

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	400	80	69-120	
Decachlorobiphenyl (S)	%			74	34-120	
Tetrachloro-m-xylene (S)	%			83	44-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683202 2683203

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40274891016 Result	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	<0.019 mg/kg			<19.3	<19.4				20	
PCB-1221 (Aroclor 1221)	ug/kg	<0.019 mg/kg			<19.3	<19.4				20	
PCB-1232 (Aroclor 1232)	ug/kg	<0.019 mg/kg			<19.3	<19.4				20	
PCB-1242 (Aroclor 1242)	ug/kg	<0.019 mg/kg			<19.3	<19.4				20	
PCB-1248 (Aroclor 1248)	ug/kg	<0.019 mg/kg			<19.3	<19.4				20	

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QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Parameter	Units	2683202		2683203		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40274891016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
PCB-1254 (Aroclor 1254)	ug/kg	<0.019 mg/kg			<19.3	<19.4							20
PCB-1260 (Aroclor 1260)	ug/kg	<0.019 mg/kg	635	637	448	459	70	72	51-120	3	20		
Decachlorobiphenyl (S)	%						66	67	34-120				
Tetrachloro-m-xylene (S)	%						77	80	44-120				

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QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

QC Batch:	468218	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: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

SAMPLE DUPLICATE: 2682470

Parameter	Units	40274887016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.0	22.4	2	10	

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QUALIFIERS

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

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 - The reported result is an estimated value.

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.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 581184 PHASE 2 TASK 4 MKC CONC

Pace Project No.: 40274898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40274898001	2024-1-COMP-1	EPA 3541	468423	EPA 8082A	468431
40274898002	2024-1-COMP-2	EPA 3541	468423	EPA 8082A	468431
40274898003	2024-1-COMP-3	EPA 3541	468423	EPA 8082A	468431
40274898004	2024-1-COMP-4	EPA 3541	468423	EPA 8082A	468431
40274898005	2024-2-COMP-1	EPA 3541	468423	EPA 8082A	468431
40274898006	2024-2-COMP-2	EPA 3541	468423	EPA 8082A	468431
40274898007	2024-2-COMP-3	EPA 3541	468423	EPA 8082A	468431
40274898008	2024-2-COMP-4	EPA 3541	468423	EPA 8082A	468431
40274898009	2024-3-COMP-1	EPA 3541	468423	EPA 8082A	468431
40274898010	2024-3-COMP-2	EPA 3541	468423	EPA 8082A	468431
40274898011	2024-3-COMP-3	EPA 3541	468423	EPA 8082A	468431
40274898012	2024-3-COMP-4	EPA 3541	468423	EPA 8082A	468431
40274898001	2024-1-COMP-1	EPA 3050B	468241	EPA 6010D	468325
40274898002	2024-1-COMP-2	EPA 3050B	468241	EPA 6010D	468325
40274898003	2024-1-COMP-3	EPA 3050B	468241	EPA 6010D	468325
40274898004	2024-1-COMP-4	EPA 3050B	468241	EPA 6010D	468325
40274898005	2024-2-COMP-1	EPA 3050B	468241	EPA 6010D	468325
40274898006	2024-2-COMP-2	EPA 3050B	468241	EPA 6010D	468325
40274898007	2024-2-COMP-3	EPA 3050B	468241	EPA 6010D	468325
40274898008	2024-2-COMP-4	EPA 3050B	468241	EPA 6010D	468325
40274898009	2024-3-COMP-1	EPA 3050B	468241	EPA 6010D	468325
40274898010	2024-3-COMP-2	EPA 3050B	468241	EPA 6010D	468325
40274898011	2024-3-COMP-3	EPA 3050B	468241	EPA 6010D	468325
40274898012	2024-3-COMP-4	EPA 3050B	468241	EPA 6010D	468325
40274898001	2024-1-COMP-1	EPA 7471	468375	EPA 7471	468802
40274898002	2024-1-COMP-2	EPA 7471	468375	EPA 7471	468802
40274898003	2024-1-COMP-3	EPA 7471	468375	EPA 7471	468802
40274898004	2024-1-COMP-4	EPA 7471	468375	EPA 7471	468802
40274898005	2024-2-COMP-1	EPA 7471	468375	EPA 7471	468802
40274898006	2024-2-COMP-2	EPA 7471	468375	EPA 7471	468802
40274898007	2024-2-COMP-3	EPA 7471	468375	EPA 7471	468802
40274898008	2024-2-COMP-4	EPA 7471	468375	EPA 7471	468802
40274898009	2024-3-COMP-1	EPA 7471	468375	EPA 7471	468802
40274898010	2024-3-COMP-2	EPA 7471	468375	EPA 7471	468802
40274898011	2024-3-COMP-3	EPA 7471	468375	EPA 7471	468802
40274898012	2024-3-COMP-4	EPA 7471	468375	EPA 7471	468802
40274898001	2024-1-COMP-1	ASTM D2974-87	468218		
40274898002	2024-1-COMP-2	ASTM D2974-87	468218		
40274898003	2024-1-COMP-3	ASTM D2974-87	468218		
40274898004	2024-1-COMP-4	ASTM D2974-87	468218		
40274898005	2024-2-COMP-1	ASTM D2974-87	468218		
40274898006	2024-2-COMP-2	ASTM D2974-87	468218		
40274898007	2024-2-COMP-3	ASTM D2974-87	468218		
40274898008	2024-2-COMP-4	ASTM D2974-87	468218		
40274898009	2024-3-COMP-1	ASTM D2974-87	468218		
40274898010	2024-3-COMP-2	ASTM D2974-87	468218		
40274898011	2024-3-COMP-3	ASTM D2974-87	468218		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40274898012	2024-3-COMP-4	ASTM D2974-87	468218		

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Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/LogIn Label Here



40274898

Scan QR Code for instructions

Company Name: **TRC**
 Street Address: **999 Fournier Drive suite 101
 Madison, WI 53717**
 Customer Project # **581184 Phase 2 Task 4**
 Project Name: **MKC Concrete Sampling**
 Site Collection Info/Facility ID (as applicable)
Madison, WI

Contact/Report To: **Andrew Stehn**
 Phone #: **608-807-8112**
 E-Mail: **astehn@trccompanies.com**
 Cc E-Mail: **kvater@trccompanies.com**
 Invoice To:
 Invoice E-Mail: **same**
 Purchase Order # (if applicable)
 Quote #.

Time Zone Collected [] AK [] PT [] MT [x] CT [] ET
 Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other

County / State origin of sample(s): **WI**
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
 Date Results Requested: **standard TAT**
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

Specify Container Size **
10 10
 Identify Container Preservative Type***
1 1
 Analysis Requested

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
402 AM
 *** Preservative Types (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
			Date	Time	Date	Time		Results	Units
2024-1-comp-1	OT	COMP	2/28/24	16:25	2/28/24	16:25	1	-	-
2024-1-comp-2						16:33	1	-	-
2024-1-comp-3						16:40	1	-	-
2024-1-comp-4						16:45	1	-	-
2024-2-comp-1						10:49	1	-	-
2024-2-comp-2						11:25	1	-	-
2024-2-comp-3						11:55	1	-	-
2024-2-comp-4						15:35	1	-	-
2024-3-comp-1						15:47	1	-	-
2024-3-comp-2						15:59	1	-	-

PCBS
RCRA 8 metals

Proj Mgr:
 AcctNum / Client ID:
 Table #:
 Profile / Template:
 Prelog / Bottle Ord. ID:

Sample Comment
 001
 002
 003
 004
 005
 006
 007
 008
 009
 010

Additional Instructions from Pace®
 Collected By (Printed Name) **Molly Wagler**
 Signature **Molly Wagler**

Customer Remarks / Special Conditions / Possible Hazards:
 # Coolers Thermometer ID Correction Factor (°C) Obs Temp (°C) Corrected Temp (°C) On Ice

Relinquished by/Company (Signature) **[Signature] (TRC)**
 Date/Time **2/29/24 17:45**
 Relinquished by/Company (Signature) **Fedex**
 Date/Time **3/01/24 0935**
 Relinquished by/Company (Signature)
 Date/Time
 Relinquished by/Company (Signature)
 Date/Time

Received by/Company (Signature)
 Date/Time
 Received by/Company (Signature) **[Signature] pace**
 Date/Time **3/01/24 0935**
 Received by/Company (Signature)
 Date/Time
 Received by/Company (Signature)
 Date/Time

Tracking Number
 Delivered by [] In-Person [] Courier
 FedEX [] UPS [] Other
 Page: **1** of **23** of 36



Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here



U0274898

Scan QR Code for instructions

Company Name: **TRC**
 Street Address: **999 Fenner Drive Suite 101
 Madison, WI 53717**
 Customer Project # **581184 Phase 2 Task 4**
 Project Name **MKC Concrete Sampling**
 Site Collection Info/Facility ID (as applicable):
Madison, WI

Contact/Report To: **Andrew Stehn**
 Phone #: **608-807-8112**
 E-Mail: **astehn@trccompanies.com**
 Cc E-Mail: **kvater@trccompanies.com**
 Invoice To
 Invoice E-Mail: **↓ same**
 Purchase Order # (if applicable)
 Quote #:

Specify Container Size **
 10 10
 Identify Container Preservative Type***
 1 1
 Analysis Requested

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
 *** Preservative Types (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Time Zone Collected: [] AK [] PT [] MT CT [] ET
 Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other

County / State origin of sample(s) **WI**
 Regulatory Program (DW, RCRA, etc.) as applicable Reportable [] Yes [] No
 Rush (Pre-approval required):
 Same Day 1 Day 2 Day 3 Day Other
 Date Results Requested: **standard TAT**
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

PCBS
RCRA 8 metals

Proj. Mgr:
 AcctNum / Client ID:
 Table #
 Profile / Template:
 Prelog / Bottle Ord. ID:
 Sample Comment

* Matrix Codes (Insert in Matrix box below) Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
			Date	Time	Date	Time		Results	Units
2024-3-comp-3	OT	COMP			2/28/24	16:07	1	-	-
2024-3-comp-4	OT	COMP			2/28/24	16:15	1	-	-

# Coolers	Thermometer ID	Correction Factor (°C)	Obs Temp (°C)	Corrected Temp (°C)	On Ice

Additional Instructions from Pace®:

Collected By (Printed Name) **Molly Wiegler**
 Signature **Molly Wiegler**

Customer Remarks / Special Conditions / Possible Hazards
 # Coolers Thermometer ID Correction Factor (°C) Obs Temp (°C) Corrected Temp (°C) On Ice

Relinquished by/Company (Signature) **Ben Wachter (TRC)**
 Relinquished by/Company (Signature) **Fedex**
 Relinquished by/Company (Signature)
 Relinquished by/Company (Signature)

Date/Time: **2/29/24 17:45**
 Date/Time: **3/01/24 0935**
 Date/Time
 Date/Time

Received by/Company (Signature)
 Received by/Company (Signature) **pace**
 Received by/Company (Signature)
 Received by/Company (Signature)

Date/Time
 Date/Time: **3/01/24 0935**
 Date/Time
 Date/Time

Tracking Number
 Delivered by [] In-Person [] Courier
 FedEx [] UPS [] Other
 Page: **2** of **2** of 36

Effective Date: 8/16/2022

Client Name: TRC

Sample Preservation Receipt Form

Project # 4024898

All containers needing preservation have been checked and noted below:
 Lab Lot# of pH paper.

Yes No N/A
 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)					
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JG9U	JG9U	WGFU	WPFU								SP5T	ZPLC	GN 1	GN 2	
001																																			2.5 / 5
002																																			2.5 / 5
003																																			2.5 / 5
004																																			2.5 / 5
005																																			2.5 / 5
006																																			2.5 / 5
007																																			2.5 / 5
008																																			2.5 / 5
009																																			2.5 / 5
010																																			2.5 / 5
011																																			2.5 / 5
012																																			2.5 / 5
013																																			2.5 / 5
014																																			2.5 / 5
015																																			2.5 / 5
016																																			2.5 / 5
017																																			2.5 / 5
018																																			2.5 / 5
019																																			2.5 / 5
020																																			2.5 / 5

3/01/24 NK

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	VG9C 40 mL clear ascorbic w/ HCl	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
AG5U 100 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH + Zn	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres			GN 1
			GN 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: TRC

WO# : 40274898



40274898

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

Tracking #: 775373479234

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 - 134 Type of Ice: (Wet) Blue Dry None Meltwater Only

Cooler Temperature Uncorr: 2.0 /Corr: 2.0

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

Person examining contents:
 Date: 3/01/24 /Initials: NK
 Labeled By Initials: EZ

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.
- DI 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.
Correct Type: Pace Green Bay Pace IR, Non-Pace		
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 log in