

4401 Lyman Drive, Suite C Hilliard, OH 43026

T (614) 705-2250

www.sme-usa.com

November 14, 2022

Mr. Kelly Joseph United States Environmental Protection Agency (USEPA) Region 5 Mail Code: SR-6J 77 West Jackson Boulevard Chicago, Illinois 60604-3507

Via E-mail: Franc.David@epa.gov

RE: SME Serial Letter #66 2022 Groundwater Monitoring Report Sheboygan River and Harbor Site Tecumseh Products Site Sheboygan Falls, Wisconsin SME Project No. 069638.00.064

Dear Mr. Kelly:

Pursuant to the Long-Term Monitoring and Operation Plan Upper River – Phase I¹ (LTMOP), SME is providing the groundwater analytical results for the 2021 monitoring event. Six groundwater monitoring wells (MW9, MW10, MW12, MW13, MW16, and MW17) are located on the Site and down-gradient of the groundwater monitoring/interceptor trench (GMIT). A map of the monitoring well locations is included in Attachment 1. The wells have been sampled annually following completion of the source removal activities in accordance with the LTMOP. The objective of the monitoring of these wells is to assess polychlorinated biphenyl (PCB) concentration trends in groundwater on the site and to evaluate if it is necessary to operate the GMIT² to prevent PCB-impacted groundwater from migrating to the Sheboygan River.

SME conducted the sampling on May 25, 2021, and in accordance with the Field Sampling Plan submitted and approved as part of the Phase I Design. The groundwater purging and stabilization was conducted using with low flow sampling protocol, and purging was conducted until field measurements for specific conductance, dissolved oxygen, turbidity, oxygen reduction potential (ORP), and pH had stabilized. Following purging and stabilization, a groundwater sample for analysis of PCBs was collected from each well. Samples were collected in pre-cleaned, laboratory-provided containers and were transported to Pace Analytical laboratory of Green Bay for analysis.

A summary of the 2022 results compared to the historical data is provided in Table 1. We compared the groundwater results to the USEPA Maximum Contaminant Level (MCL) and the Wisconsin NR140 groundwater criteria. A copy of the laboratory report is provided in Attachment 2.

¹ Long-Term Monitoring and Operations Plan, Upper River – Phase 1, PRS and URS, May 2004.

² Remedial Design Work Plan, Upper River – Phase I and II, PRS and URS, June 2004.

PCBs were detected in five wells in excess of the Limit of Quantitation ($\approx 0.04 \ \mu g/L$). As in the past, PCBs were detected in two monitoring in excess of the Maximum Contaminant Level (MCL). The concentration of PCBs in MW13 in 2022 was higher than the last three years; however, the concentration of PCBs in MW13 remains significantly lower than the concentrations of PCBs from 2009 to 2015. The average PCB concentration from the previous 5 years (2017-2021, 0.44 $\mu g/L$) was also significantly less than the 5 years prior (2012-2016, 0.75 $\mu g/L$) or 10 years prior (2010-2016, 1.087 $\mu g/L$).

In the past we have concluded that based on the historical data and modeling, as long as the building dewatering pad/foundation slab remains acting as an engineering control to prevent infiltration, the river should not be impacted by the groundwater. However, the Phase II investigation of the Tecumseh facility in 2016, 2018, and 2021 demonstrated there were high levels of exposed PCBs in soil outside of the footprint of dewatering pad/foundation slab. The concentrations in soil ranged from 0.03 to over 15,000 mg/kg with a mean of 470 mg/kg. The presence of this exposed impact and the limited groundwater impact implies the leaching to groundwater is an incomplete preferential pathway.

The Long-Term Monitoring and Operations Plan, Upper River – Phase 1, states the groundwater shall be sampled for PCB concentrations on a semi-annual basis for a period of five years following completion of source removal activities. At the direction of the USEPA, semi-annual occurred for eight years after completion of source removal and annually since 2013. During this time, the concentrations of PCBs in groundwater have generally continued to decline to below the MCL and in most wells, laboratory level of detection. Based on the short-term increases, we will continue to complete annual groundwater sampling.

If you have questions regarding the sampling event, feel free to contact me at (513) 319-8919 or keith.egan@sme-usa.com.

Respectfully,

SME

Keith Egan, CP Chief Consultant

Attachments:	Table 1 – Groundwater Analytical Results Figure 1 – Groundwater Features Diagram Laboratory Analytical Report
Distribution:	Mr. Christopher Dietrich, Wisconsin Department of Natural Resources via e-mail (Christopher.dietrich@wisconsin.gov)
	Ms. Debbie McMillan, PRS via e-mail (dmcmillan@grhdevelopment.com) Mr. Peter Johnson, Johnson-Wright via e-mail (pjohnson@johnsonwright.net) Mr. Jason Smith, Tecumseh Products Company, LLC via e-mail (Jason smith@tecumseh.com)

TABLE 1GROUNDWATER ANALYTICAL RESULTS



TABLE 1

FORMER TECUMSEH SITE **CLEVELAND STREET, SHEBOYGAN FALLS, WISCONSIN GROUNDWATER ANALYTICAL RESULTS**

SME Project No. 069638.00.073

SAMPLE DATE	Wisconsin DNR NR 140 Criteria	USEPA Maximum	11/17/2004	5/27/2005	12/12/2005	7/10/2006	11/20/2006	5/24/2007	10/22/2007	E/4 4/2009	10/15/2009
WELL ID		(MCL)	11/1//2004	5/2//2005	12/13/2005	//10/2006	11/20/2000	5/31/2007	10/23/2007	5/14/2006	10/15/2006
MW9			0.47	0.47	0.49	0.49	0.48	0.49	0.47	0.49	0.24
MW10			0.47	0.48	0.50	NC	1.1	0.49	0.98	0.72	0.5
MW12	0.02	0.03 0.5	1.5	0.47	0.50	0.47	0.57	0.46	0.44	0.83	0.23
MW13	0.03		1.5	0.48	0.48	2.1	1.1	0.82	1.5	1.6	1.9
MW16			0.49	0.48	0.50	0.47	0.49	0.4	0.47	0.49	0.24
MW17			0.48	0.48	0.48	0.46	0.48	0.51	0.47	0.5	0.24

SAMPLE DATE	Wisconsin DNR	USEPA Maximum	5/11/2000	10/22/2000	5/11/2010	10/20/2010	6/20/2011	11/20/2011	6/29/2012	11/7/2012	6/4/2012
WELL ID	NR 140 Criteria	(MCL)	5/14/2009	10/22/2009	5/14/2010	10/29/2010	0/29/2011	11/23/2011	0/20/2012	11///2012	0/4/2013
MW9			0.24	0.23	0.29	0.29	0.29	0.31	0.29	0.31	0.25
MW10			0.44	0.47	0.39	0.85	0.44	0.67	0.38	0.57	0.55
MW12	0.02	0.5	0.49	0.23	0.33	0.88	0.34	0.31	0.8	0.31	0.25
MW13	0.03	0.5	1.6	1.0	2.0	1.1	1.7	1.5	0.82	0.54	0.44
MW16			0.23	0.23	0.29	0.29	0.29	0.31	0.29	0.31	0.27
MW17			0.23	0.23	0.30	0.29	0.29	0.31	0.29	0.31	0.26

SAMPLE DATE	Wisconsin DNR	USEPA Maximum	6/10/2014	6/11/2015	7/12/2016	9/20/2017	5/10/2019	6///2010	6/0/2020	5/25/2021	8/0/2022
WELL ID	NR 140 Criteria	(MCL)	0/15/2014	0/11/2013	1113/2010	0/30/2017	5/10/2016	0/4/2019	0/3/2020	5/25/2021	0/9/2022
MW9			0.25	0.24	0.25	0.26	0.26	0.11	0.045	0.044	0.048
MW10			0.57	0.44	0.61	0.65	0.26	0.11	0.045	0.044	0.63
MW12	0.02	0.5	0.33	0.30	0.52	0.59	0.25	0.11	0.044	0.044	0.35
MW13	0.03	0.5	0.91	1.2	0.66	0.65	0.35	0.26	0.42	0.54	1.1
MW16			0.25	0.24	0.25	0.26	0.27	0.16	0.097	0.14	0.42
MW17			0.27	0.24	0.26	0.26	0.26	0.13	0.045	0.044	0.41

SAMPLE DATE	Wisconsin DNR	USEPA Maximum Contaminant Level	MFAN	махімим
WELL ID	NR 140 Criteria	(MCL)		
MW9			ND	ND
MW10			0.51	1.10
MW12	0.02	0.5	0.45	1.50
MW13	0.03	0.5	1.05	2.10
MW16			ND	0.50
MW17			ND	0.51

NOTES:

(1) PCB concentrations reported in µg/L (parts per billion or ppb) unless otherwise noted.

(2) Grey shading - PCBs were not detected above the Limit of Detection (LOD).

(3) Italicized numbers are estimated because the concentration was less than Limit of Quantitation (LOQ).
 (4) NA - Not available. NC - Not Collected.

(5) PCB results shown from the 6/9/2020 and 5/25/2021 were the highest aroclor LOD or sum of the detections.

ATTACHMENT 1 FIGURE 1 – GROUNDWATER FEATURES DIAGRAM



ATTACHMENT 2 LABORATORY ANALYTICAL REPORT



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

August 30, 2022

Aaron Lammers SME 3301 Tech Circle Kalamazoo, MI 49008

RE: Project: 069638.00.073 WATERS Pace Project No.: 40249619

Dear Aaron Lammers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 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 - Minneapolis

This report was revised on August 26, 2022, to report total polychlorinated biphenyls by method 8082A.

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

Sincerely,

Tod holtemeyor

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

Enclosures

cc: Keith Egan, Pollution Risk Services LLC Megan Schaner, SME





Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414 1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab A2LA Certification #: 2926.01* Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009* Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605* Georgia Certification #: 959 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: AI-03086* Louisiana DW Certification #: MN00064 Maine Certification #: MN00064* Maryland Certification #: 322 Michigan Certification #: 9909 Minnesota Certification #: 027-053-137* Minnesota Dept of Ag Approval: via MN 027-053-137 Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064

Missouri Certification #: 10100 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081* New Jersey Certification #: MN002 New York Certification #: 11647* North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification (A2LA) #: R-036 North Dakota Certification (MN) #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification (1700) #: CL101 Ohio VAP Certification (1800) #: CL110* Oklahoma Certification #: 9507* Oregon Primary Certification #: MN300001 Oregon Secondary Certification #: MN200001* Pennsylvania Certification #: 68-00563* Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192* Utah Certification #: MN00064* Vermont Certification #: VT-027053137 Virginia Certification #: 460163* Washington Certification #: C486* West Virginia DEP Certification #: 382 West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970 Wyoming UST Certification #: via A2LA 2926.01 USDA Permit #: P330-19-00208 *Please Note: Applicable air certifications are denoted with an asterisk (*).



Pace Analytical Services, LLC 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

SAMPLE SUMMARY

 Project:
 069638.00.073
 WATERS

 Pace Project No.:
 40249619
 Vertical

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40249619001	MW12	Water	08/09/22 09:45	08/10/22 10:30
40249619002	MW9	Water	08/09/22 10:50	08/10/22 10:30
40249619003	MW10	Water	08/09/22 12:00	08/10/22 10:30
40249619004	MW13	Water	08/09/22 12:45	08/10/22 10:30
40249619005	MW16	Water	08/09/22 13:25	08/10/22 10:30
40249619006	MW17	Water	08/09/22 14:05	08/10/22 10:30
40249619007	EQUIPMENT BLANK	Water	08/09/22 14:20	08/10/22 10:30
40249619008	DUP GW	Water	08/09/22 00:00	08/10/22 10:30



SAMPLE ANALYTE COUNT

 Project:
 069638.00.073
 WATERS

 Pace Project No.:
 40249619
 Vertical

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40249619001	 MW12	EPA 8082A	RAG	10	PASI-M
40249619002	MW9	EPA 8082A	RAG	10	PASI-M
40249619003	MW10	EPA 8082A	RAG	10	PASI-M
40249619004	MW13	EPA 8082A	RAG	10	PASI-M
40249619005	MW16	EPA 8082A	RAG	10	PASI-M
40249619006	MW17	EPA 8082A	RAG	10	PASI-M
40249619007	EQUIPMENT BLANK	EPA 8082A	RAG	10	PASI-M
40249619008	DUP GW	EPA 8082A	RAG	10	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



PROJECT NARRATIVE

Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Method: EPA 8082A

Description:8082A GCS PCBClient:SMEDate:August 30, 2022

General Information:

8 samples were analyzed for EPA 8082A by Pace Analytical Services Minneapolis. 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 3510C 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:

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



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW12	Lab ID: 40249619001		Collected	Collected: 08/09/22 09:45			Received: 08/10/22 10:30 Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prep	aration Met	hod: EF	PA 3510C			
	Pace Anal	vtical Services	- Minneapo	lis					
PCB-1016 (Aroclor 1016)	<0.040	ug/L	0.10	0.040	1	08/12/22 09:06	08/15/22 12:31	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.041	ug/L	0.10	0.041	1	08/12/22 09:06	08/15/22 12:31	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.043	ug/L	0.10	0.043	1	08/12/22 09:06	08/15/22 12:31	11141-16-5	
PCB-1242 (Aroclor 1242)	0.11	ug/L	0.10	0.043	1	08/12/22 09:06	08/15/22 12:31	53469-21-9	
PCB-1248 (Aroclor 1248)	0.19	ug/L	0.10	0.049	1	08/12/22 09:06	08/15/22 12:31	12672-29-6	
PCB-1254 (Aroclor 1254)	0.048J	ug/L	0.10	0.041	1	08/12/22 09:06	08/15/22 12:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.049	ug/L	0.10	0.049	1	08/12/22 09:06	08/15/22 12:31	11096-82-5	
PCB, Total	0.35	ug/L	0.10	0.040	1	08/12/22 09:06	08/15/22 12:31	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	65	%.	30-125		1	08/12/22 09:06	08/15/22 12:31	877-09-8	
Decachlorobiphenyl (S)	65	%.	30-133		1	08/12/22 09:06	08/15/22 12:31	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW9	Lab ID:	40249619002	Collected	1: 08/09/22	2 10:50	Received: 08/	10/22 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prepa	aration Met	hod: EF	PA 3510C			
	Pace Analy	vtical Services	- Minneapol	is					
PCB-1016 (Aroclor 1016)	<0.039	ug/L	0.098	0.039	1	08/12/22 09:06	08/15/22 13:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.040	ug/L	0.098	0.040	1	08/12/22 09:06	08/15/22 13:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.042	ug/L	0.098	0.042	1	08/12/22 09:06	08/15/22 13:19	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.042	ug/L	0.098	0.042	1	08/12/22 09:06	08/15/22 13:19	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.048	ug/L	0.098	0.048	1	08/12/22 09:06	08/15/22 13:19	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.040	ug/L	0.098	0.040	1	08/12/22 09:06	08/15/22 13:19	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.048	ug/L	0.098	0.048	1	08/12/22 09:06	08/15/22 13:19	11096-82-5	
PCB, Total	<0.039	ug/L	0.098	0.039	1	08/12/22 09:06	08/15/22 13:19	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	52	%.	30-125		1	08/12/22 09:06	08/15/22 13:19	877-09-8	
Decachlorobiphenyl (S)	82	%.	30-133		1	08/12/22 09:06	08/15/22 13:19	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW10	Lab ID:	Collected: 08/09/22 12:00			Received: 08/10/22 10:30 Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prepa	aration Met	hod: EF	PA 3510C			
	Pace Analy	vtical Services	- Minneapol	is					
PCB-1016 (Aroclor 1016)	<0.040	ug/L	0.10	0.040	1	08/12/22 09:06	08/15/22 13:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.041	ug/L	0.10	0.041	1	08/12/22 09:06	08/15/22 13:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.043	ug/L	0.10	0.043	1	08/12/22 09:06	08/15/22 13:34	11141-16-5	
PCB-1242 (Aroclor 1242)	0.21	ug/L	0.10	0.043	1	08/12/22 09:06	08/15/22 13:34	53469-21-9	
PCB-1248 (Aroclor 1248)	0.35	ug/L	0.10	0.049	1	08/12/22 09:06	08/15/22 13:34	12672-29-6	
PCB-1254 (Aroclor 1254)	0.065J	ug/L	0.10	0.041	1	08/12/22 09:06	08/15/22 13:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.049	ug/L	0.10	0.049	1	08/12/22 09:06	08/15/22 13:34	11096-82-5	
PCB, Total	0.63	ug/L	0.10	0.040	1	08/12/22 09:06	08/15/22 13:34	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	49	%.	30-125		1	08/12/22 09:06	08/15/22 13:34	877-09-8	
Decachlorobiphenyl (S)	87	%.	30-133		1	08/12/22 09:06	08/15/22 13:34	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW13	Lab ID:	Collected: 08/09/22 12:45			Received: 08/	atrix: Water	'ater		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prep	aration Met	hod: EF	PA 3510C			
	Pace Anal	tical Services	- Minneapo	lis					
PCB-1016 (Aroclor 1016)	<0.039	ug/L	0.099	0.039	1	08/12/22 09:06	08/15/22 13:50	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.040	ug/L	0.099	0.040	1	08/12/22 09:06	08/15/22 13:50	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.043	ug/L	0.099	0.043	1	08/12/22 09:06	08/15/22 13:50	11141-16-5	
PCB-1242 (Aroclor 1242)	0.36	ug/L	0.099	0.042	1	08/12/22 09:06	08/15/22 13:50	53469-21-9	
PCB-1248 (Aroclor 1248)	0.59	ug/L	0.099	0.048	1	08/12/22 09:06	08/15/22 13:50	12672-29-6	
PCB-1254 (Aroclor 1254)	0.098J	ug/L	0.099	0.040	1	08/12/22 09:06	08/15/22 13:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.049	ug/L	0.099	0.049	1	08/12/22 09:06	08/15/22 13:50	11096-82-5	
PCB, Total	1.1	ug/L	0.099	0.039	1	08/12/22 09:06	08/15/22 13:50	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	50	%.	30-125		1	08/12/22 09:06	08/15/22 13:50	877-09-8	
Decachlorobiphenyl (S)	83	%.	30-133		1	08/12/22 09:06	08/15/22 13:50	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW16	Lab ID:	40249619005	Collected	08/09/22	2 13:25	Received: 08/	10/22 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prepa	ration Met	hod: EF	A 3510C			
	Pace Analy	vtical Services	- Minneapoli	s					
PCB-1016 (Aroclor 1016)	<0.039	ug/L	0.097	0.039	1	08/12/22 09:06	08/15/22 14:06	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.040	ug/L	0.097	0.040	1	08/12/22 09:06	08/15/22 14:06	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.042	ug/L	0.097	0.042	1	08/12/22 09:06	08/15/22 14:06	11141-16-5	
PCB-1242 (Aroclor 1242)	0.13	ug/L	0.097	0.042	1	08/12/22 09:06	08/15/22 14:06	53469-21-9	
PCB-1248 (Aroclor 1248)	0.21	ug/L	0.097	0.047	1	08/12/22 09:06	08/15/22 14:06	12672-29-6	
PCB-1254 (Aroclor 1254)	0.080J	ug/L	0.097	0.040	1	08/12/22 09:06	08/15/22 14:06	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.048	ug/L	0.097	0.048	1	08/12/22 09:06	08/15/22 14:06	11096-82-5	
PCB, Total	0.42	ug/L	0.097	0.039	1	08/12/22 09:06	08/15/22 14:06	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	47	%.	30-125		1	08/12/22 09:06	08/15/22 14:06	877-09-8	
Decachlorobiphenyl (S)	77	%.	30-133		1	08/12/22 09:06	08/15/22 14:06	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: MW17	Lab ID:	40249619006	Collecte	d: 08/09/22	2 14:05	Received: 08/	10/22 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prep	aration Met	hod: EF	PA 3510C			
	Pace Analy	tical Services	- Minneapo	lis					
PCB-1016 (Aroclor 1016)	<0.039	ug/L	0.098	0.039	1	08/12/22 09:06	08/15/22 14:22	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.040	ug/L	0.098	0.040	1	08/12/22 09:06	08/15/22 14:22	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.042	ug/L	0.098	0.042	1	08/12/22 09:06	08/15/22 14:22	11141-16-5	
PCB-1242 (Aroclor 1242)	0.082J	ug/L	0.098	0.042	1	08/12/22 09:06	08/15/22 14:22	53469-21-9	
PCB-1248 (Aroclor 1248)	0.27	ug/L	0.098	0.048	1	08/12/22 09:06	08/15/22 14:22	12672-29-6	
PCB-1254 (Aroclor 1254)	0.063J	ug/L	0.098	0.040	1	08/12/22 09:06	08/15/22 14:22	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.048	ug/L	0.098	0.048	1	08/12/22 09:06	08/15/22 14:22	11096-82-5	
PCB, Total	0.41	ug/L	0.098	0.039	1	08/12/22 09:06	08/15/22 14:22	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	44	%.	30-125		1	08/12/22 09:06	08/15/22 14:22	877-09-8	
Decachlorobiphenyl (S)	80	%.	30-133		1	08/12/22 09:06	08/15/22 14:22	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: EQUIPMENT BLANK	Lab ID:	40249619007	Collected	d: 08/09/22	2 14:20	Received: 08/	10/22 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prepa	aration Met	hod: EF	PA 3510C			
	Pace Anal	ytical Services	- Minneapo	lis					
PCB-1016 (Aroclor 1016)	<0.042	ug/L	0.11	0.042	1	08/12/22 09:06	08/15/22 14:38	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.043	ug/L	0.11	0.043	1	08/12/22 09:06	08/15/22 14:38	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.046	ug/L	0.11	0.046	1	08/12/22 09:06	08/15/22 14:38	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.045	ug/L	0.11	0.045	1	08/12/22 09:06	08/15/22 14:38	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.051	ug/L	0.11	0.051	1	08/12/22 09:06	08/15/22 14:38	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.043	ug/L	0.11	0.043	1	08/12/22 09:06	08/15/22 14:38	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.052	ug/L	0.11	0.052	1	08/12/22 09:06	08/15/22 14:38	11096-82-5	
PCB, Total	<0.042	ug/L	0.11	0.042	1	08/12/22 09:06	08/15/22 14:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	50	%.	30-125		1	08/12/22 09:06	08/15/22 14:38	877-09-8	
Decachlorobiphenyl (S)	87	%.	30-133		1	08/12/22 09:06	08/15/22 14:38	2051-24-3	



Project: 069638.00.073 WATERS

Pace Project No.: 40249619

Sample: DUP GW	Lab ID:	40249619008	Collected	d: 08/09/22	2 00:00	Received: 08/	10/22 10:30 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB	Analytical	Method: EPA 8	082A Prepa	aration Met	hod: EF	PA 3510C			
	Pace Analy	tical Services	- Minneapo	lis					
PCB-1016 (Aroclor 1016)	<0.039	ug/L	0.099	0.039	1	08/12/22 09:06	08/15/22 12:16	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.040	ug/L	0.099	0.040	1	08/12/22 09:06	08/15/22 12:16	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.043	ug/L	0.099	0.043	1	08/12/22 09:06	08/15/22 12:16	11141-16-5	
PCB-1242 (Aroclor 1242)	0.18	ug/L	0.099	0.042	1	08/12/22 09:06	08/15/22 12:16	53469-21-9	
PCB-1248 (Aroclor 1248)	0.29	ug/L	0.099	0.048	1	08/12/22 09:06	08/15/22 12:16	12672-29-6	
PCB-1254 (Aroclor 1254)	0.055J	ug/L	0.099	0.040	1	08/12/22 09:06	08/15/22 12:16	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.049	ug/L	0.099	0.049	1	08/12/22 09:06	08/15/22 12:16	11096-82-5	
PCB, Total	0.53	ug/L	0.099	0.039	1	08/12/22 09:06	08/15/22 12:16	1336-36-3	
Surrogates		-							
Tetrachloro-m-xylene (S)	65	%.	30-125		1	08/12/22 09:06	08/15/22 12:16	877-09-8	
Decachlorobiphenyl (S)	69	%.	30-133		1	08/12/22 09:06	08/15/22 12:16	2051-24-3	



QUALITY CONTROL DATA

Project:	069638	3.00.073 W/	ATERS										
Pace Project No.:	402496	619											
QC Batch:	8341	34		Analy	sis Meth	iod: E	PA 8082A						
QC Batch Method:	EPA :	3510C		Analy	sis Dese	ription: 8	082A GCS	PCB					
				Laboi	ratory:	F	ace Analyt	ical Servic	es - Minne	apolis			
Associated Lab Sar	mples:	402496190 402496190	001, 4024961900 008	2, 4024961	9003, 40	0249619004, 4	02496190	05, 402496	619006, 40	249619007	,		
METHOD BLANK:	441762	27			Matrix:	Water							
Associated Lab Sar	mples:	402496190)01, 4024961900)08	2, 4024961	9003, 40	0249619004, 4	02496190	05, 402496	619006, 40	249619007	,		
				Blan	k	Reporting							
Parar	meter		Units	Resu	ult	Limit	Analy	/zed	Qualifier	S			
PCB-1016 (Aroclor	1016)		ug/L	<	<0.040	0.10	08/15/2	2 11:44					
PCB-1221 (Aroclor	, 1221)		ug/L	<	:0.041	0.10	08/15/2	2 11:44					
PCB-1232 (Aroclor	1232)		ug/L	<	:0.043	0.10	08/15/2	2 11:44					
PCB-1242 (Aroclor	1242)		ug/L	<	<0.043	0.10	08/15/2	2 11:44					
PCB-1248 (Aroclor	1248)		ug/L	<	<0.049	0.10	08/15/2	2 11:44					
PCB-1254 (Aroclor	1254)		ug/L	<	:0.041	0.10	08/15/2	2 11:44					
PCB-1260 (Aroclor	1260)		ug/L	<	:0.049	0.10	08/15/2	2 11:44					
Decachlorobiphenyl	1 (S)		%.		90	30-133	8 08/15/2	2 11:44					
	()												
LABORATORY CO	NTROL	SAMPLE:	4417628										
LABORATORY CO	NTROL	SAMPLE:	4417628	Spike		_CS	LCS	% R	ec				
LABORATORY CO	NTROL	SAMPLE:	4417628 Units	Spike Conc.	l R	_CS esult	LCS % Rec	% R Limi	ec its	Qualifiers			
LABORATORY COM Parar PCB-1016 (Aroclor	NTROL	SAMPLE:	4417628 Units ug/L	Spike Conc.	 R 2	-CS esult 1.3	LCS % Rec 6 ⁻	% R 7	ec its	Qualifiers	_		
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor	NTROL : meter 1016) 1260)	SAMPLE:	4417628 Units ug/L ug/L	Spike Conc.	 	-CS esult 1.3 1.5	LCS % Rec 6	% R 	ec its 49-125 53-125	Qualifiers			
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl	NTROL 3 meter 1016) 1260) 1 (S)	SAMPLE:	4417628 Units ug/L ug/L %.	Spike Conc.	1 R 2 2 2	CS esult 1.3 1.5	LCS % Rec 6 7: 8	% R 	ec its 49-125 53-125 30-133	Qualifiers			
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen	NTROL meter 1016) 1260) 1 (S) me (S)	SAMPLE:	4417628 Units ug/L ug/L %. %.	Spike Conc.	 R 2 2 2	LCS esult 1.3 1.5	LCS % Rec 6 7: 8 5	% R Limi 7 4 3 4 1 3	ec its 49-125 53-125 30-133 30-125	Qualifiers	_		
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX :		4417628 Units ug/L ug/L %. %.	Spike Conc.	 R 2 2	CS esult 1.3 1.5 4417630	LCS % Rec 6 7: 8 5	% R Limi 7 4 3 5 1 5 3 5	ec its 49-125 53-125 30-133 30-125	Qualifiers	_		
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX :	SAMPLE:	4417628 Units ug/L ug/L %. %. UICATE: 4417	Spike Conc.	R 2 	CS esult 1.3 1.5 4417630	LCS % Rec 6 73 8 54	% R Limi 7 4 3 5 1 5 3 5	ec its 49-125 53-125 30-133 30-125	Qualifiers	_		
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX :	SAMPLE:	4417628 Units ug/L ug/L %. %. UICATE: 4417 40249619001	Spike Conc. 629 MS Spike	R 2 2 MSD Spike	-CS esult 1.3 1.5 4417630 MS	LCS % Rec 6 73 8 54 54	- Limi 7 4 3 5 1 5 3 5 MS	ec its 49-125 53-125 30-133 30-125 MSD	Qualifiers	_	Max	
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter	NTROL : meter 1016) 1260) 1 (S) he (S) MATRIX :	SAMPLE: SPIKE DUP	4417628 Units ug/L ug/L %. %. LICATE: 4417 40249619001 Result	Spike Conc. 629 MS Spike Conc.	R 2 2 MSD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result	LCS % Rec 6 7: 8 5 5 5 5 5 5 5	MS % Rec	ec its 49-125 53-125 30-133 30-125 MSD % Rec	Qualifiers % Rec Limits	RPD	Max RPD	Qual
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX : r 1016)	SAMPLE: SPIKE DUP	4417628 Units ug/L ug/L %. %. UICATE: 4417 40249619001 Result <0.040	Spike Conc. 629 MS Spike Conc. 2	MSD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result 2 1.6	LCS % Rec 67 73 87 54 54 54 54 54 54 54 54 54 54 54 54 54	MS % Rec 7 4 3 4 1 5 3 5 79	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79	Qualifiers % Rec Limits 30-125		Max RPD 30	Qual
LABORATORY CON Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor PCB-1260 (Aroclor	NTROL meter 1016) 1260) 1 (S) ne (S) MATRIX r 1016) 1260)	SAMPLE: SPIKE DUP Units ug/L ug/L	4417628 Units ug/L ug/L %. %. UICATE: 4417 40249619001 <u>Result</u> <0.040 <0.049	Spike Conc. 629 MS Spike Conc. 2 2	ASD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result 2 1.6 2 1.6	LCS % Rec 6 73 8 54 54 54 54 54 54 54 54 54 54 54 54 54	MS % Rec 7 4 3 4 1 5 3 5 % Rec 79 79	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79 81	Qualifiers % Rec Limits 30-125 39-125		Max RPD 30 30	Qual
LABORATORY CON Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX : nr 1016) 1260) I (S)	SAMPLE: SPIKE DUP Units ug/L ug/L %.	4417628 Units ug/L ug/L %. %. LICATE: 4417 40249619001 Result <0.040 <0.049	Spike Conc. 629 MS Spike Conc. 2 2 2	MSD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result 2 1.6 2 1.6	LCS % Rec 6 73 8 54 54 54 54 54 54 54 54 54 54 54 54 54	MS % Rec MS % Rec 79 79 79 79 79	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79 81 83	Qualifiers % Rec Limits 30-125 39-125 30-133		Max RPD 30 30	Qual
LABORATORY COM Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX : r 1016) 1260) I (S) ne (S)	SAMPLE: SPIKE DUP Units ug/L ug/L %. %.	4417628 Units ug/L w. %. %. LICATE: 4417 40249619001 Result <0.040 <0.049	Spike Conc. 629 MS Spike Conc. 2 2 2	MSD Spike Conc.	LCS esult 1.3 1.5 4417630 MS Result 2 1.6 2 1.6	LCS % Rec 6 7: 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MS % Rec 1	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79 81 83 63	Qualifiers % Rec Limits 30-125 39-125 30-133 30-125		Max RPD 30 30	Qual
LABORATORY CON Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX : r 1016) 1260) 1 (S) ne (S)	SAMPLE: SPIKE DUP Units ug/L %. %.	4417628 Units ug/L w. %. %. LICATE: 4417 40249619001 Result <0.040 <0.049	Spike Conc. 629 MS Spike Conc. 2 2 2	MSD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result 2 1.6 2 1.6	LCS % Rec 6 7: 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	MS 7 4 3 5 1 5 3 7 3 7 4 5 3 7 5 7 9 79 79 72 62	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79 81 83 63	Qualifiers % Rec Limits 30-125 39-125 30-133 30-125		Max RPD 30 30	Qual
LABORATORY CON Paran PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen MATRIX SPIKE & M Parameter PCB-1016 (Aroclor PCB-1260 (Aroclor Decachlorobiphenyl Tetrachloro-m-xylen	NTROL : meter 1016) 1260) 1 (S) ne (S) MATRIX : rr 1016) 1260) I (S) ne (S)	SAMPLE: SPIKE DUP Units ug/L ug/L %. %.	4417628 Units ug/L ug/L %. %. LICATE: 4417 40249619001 Result <0.040 <0.049	Spike Conc. 629 MS Spike Conc. 2 2 2	MSD Spike Conc.	CS esult 1.3 1.5 4417630 MS Result 2 1.6 2 1.6	LCS % Rec 6 73 8 54 54 54 54 54 54 54 54 54 54 54 54 54	MS % Rec 3 3 3 3 3 3 7 9 79 79 72 62	ec its 49-125 53-125 30-133 30-125 MSD % Rec 79 81 83 63	Qualifiers % Rec Limits 30-125 30-133 30-125		Max RPD 30 30	Qual

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 069638.00.073 WATERS

Pace Project No.: 40249619

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 069638.00.073
 WATERS

 Pace Project No.:
 40249619
 Comparison

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40249619001	MW12	EPA 3510C	834134	EPA 8082A	834485
40249619002	MW9	EPA 3510C	834134	EPA 8082A	834485
40249619003	MW10	EPA 3510C	834134	EPA 8082A	834485
40249619004	MW13	EPA 3510C	834134	EPA 8082A	834485
40249619005	MW16	EPA 3510C	834134	EPA 8082A	834485
40249619006	MW17	EPA 3510C	834134	EPA 8082A	834485
40249619007	EQUIPMENT BLANK	EPA 3510C	834134	EPA 8082A	834485
40249619008	DUP GW	EPA 3510C	834134	EPA 8082A	834485

	CHAIN-O	F-CUSTODY Analy	rtical Request Do	cument		LAB US	E UNLY- AT	IX Workorder	/Login Labe	el Here or List Pace Workorder Number or
/ M ^e ace Analytical	Submitting a sample via the Condition	his chain of custody constitutes a ons found at: https://info.pacelab	cknowledgment and acceptand s.com/hubfs/pas-standard-ter	ce of the Pace Terms and ms.pdf						402441014
	Chain-ot	-Custody is a LEGAL DOCUM	ENT - Complete all relevan	nt fields						
ompany: SME		Billing Information:				Α	LL BOLD	OUTLIN	ED ARE	AS are for LAB USE ONLY
ddress: 882 40th Stre	et SE -	-7				Cont	ainer Preser	vative Type *	*	Lab Project Manager:
eport To: Accurate		Email To: Megan	Schaneresme	-usa.com			(1) nitric acid	(2) sulfurio prio		blaric acid (A) codium budcovido. (5) zinc acatato
Haron Lann	1815	Haron, Lamme	<u>rsæsme-usa</u>	i, com	(6) meth	ianol, (7) sodiu	im bisulfate, (8) sodium thiosi	ulfate, (9) he	xane, (A) ascorbic acid, (B) ammonium sulfate,
Megan Schang		40/ Clayed			(C) amm	onium hydrox	ide, (D) TSP, (I	U) Unpreserved,	, (O) Other	
ustomer Project Name/Number:		State: County/City	I'EL ST. I: Time Zone Colle	cted:			Analy	ses		Lab Profile/Line:
06963	8,00,073	WI Shebouad	IN THE IPT [IMT IN	/]CT []ET						Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N/NA
none: 810 852 1094	Site/Facility ID #:		Compliance Monitorir	ng?	\neg					Custody Signatures Present Y N NA
nail: Jacob, lindsayasn	e-vea.com		[]Yes []No							Bottles Intact
ollected By (print):	Purchase Order # :		DW PWS ID #:					18 Jah		Correct Bottles
Jacob Underay	Quote #:	ired	DW Location Code:							Sufficient Volume
Sheeted by (Signature).	Standard		[/] Yes [] No	Sec.)						VOA - Headspace Acceptable Y N NA
ample Disposal:	Rush: (Expedite Charg	es Apply)	Field Filtered (if applic	:able): ပိ		200		1 1 1		USDA Regulated Soil's Y N H
] Dispose as appropriate	[] Same Day []	Next Day	[]Yes []No	Lo C						Residual Chlorine Present V N NA
] Return	[] 2 Day [] 3 Da	y .		l l						Cl Strips:
) Hold:	[] 4 Day [] 5 Da	у	Analysis:	asti						pH Strips:
Matrix Codes (Insert in Matrix box	below): Drinking Wate	r (DW), Ground Water (G	W), Wastewater (WW)	,						Sulfide Present Y N NA
Product (P), Soil/Solid (SL), Oil (OL)	, Wipe (WP), Air (AR), T	issue (TS), Bioassay (B), V	apor (V), Other (OT)	Δ. Δ	N :					Lead Acocate Strips;
ustomer Sample ID	Comp Matrix * Grab	/ Collected (or Composite Start)	Composite End	Res # of	3					LAB USE ONLY: Lab Sample # / Comments:
NMMM70	110 mi	Date Time	Date Time		A				ana ba	
M.ID	GN	819 m 945						1.1.000 (R.1		1(1)
MS/MU/J		alam aus			TŶ I					(50)
MSD (ML/D)		1 415	1	79						
				┟───┼─┼─┼─┼	13+					001
	<u>6</u> W	1050			+					
NWIO	<u>GW</u>	1-00			X					003
MW13	GW	1245			<u> X</u>			1.2		604
Mv/16	GW	1325								2005
MW17	GW	1405								000
Equipment Blank	GW	1, 1420			X					007
DUP GW	GW				X					00 0
ustomer Remarks / Special Condit	ions / Possible Hazards:	Type of Ice Used:	Wet Blue D	Dry None		SHORT HOLI	DS PRESENT	(<72 hours) :	Y N	N/A LAB Sample Temperature Info:
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DC#_Title: ENV-FRM-GBAY-0035 v01_Sample Preservation Receipt Form Revision: 3 | Effective Date: | Issued by: Green Bay

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Qualtrax Document ID: 41307

Pace Analytical Services, LLC

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DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date: | Issued by: Green Bay

Client Name: SMC WO#:: 40249619 Courier:: C Logistics: Fed Ex Speedee F. UPS Waltco Custody Seal on Cooler/Rox Present: Fyes No Seals intact: Fyes No Custody Seal on Cooler/Rox Present: Fyes To Seals intact: Fyes No Seals intact: Fyes No Custody Seal on Cooler/Rox Present: Fyes To Seals intact: Fyes No Samples on lee, cooling process has begun Cooler Temperature Uncorr. J. Type of tce: Weit Blue Dry None Samples on lee, cooling process has begun Cooler Temperature Uncorr. J. Type of tce: Weit Blue Dry None Date: Date: <th>Client Name: SMC Courier: CS Logistics Client Pace Other: Woff: Tracking #: 40249619 Custody Seal on Cooler/Box Present: yes / no Seals intact: yes / no Seals intact: yes / no Packing Material: Bubble Wrap Bubble Bags None Type of Ice: Wet Blue Dry None Cooler Temperature Uncorr: Uncorr: Yes / no Biological Tissue is Frozen: yes / no Temp Blank Present: yes / no Temp should be above freezing to 6°C. Biological Tissue is Frozen:</th> <th>)</th>	Client Name: SMC Courier: CS Logistics Client Pace Other: Woff: Tracking #: 40249619 Custody Seal on Cooler/Box Present: yes / no Seals intact: yes / no Seals intact: yes / no Packing Material: Bubble Wrap Bubble Bags None Type of Ice: Wet Blue Dry None Cooler Temperature Uncorr: Uncorr: Yes / no Biological Tissue is Frozen: yes / no Temp Blank Present: yes / no Temp should be above freezing to 6°C. Biological Tissue is Frozen:)
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PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Qualtrax Document ID: 41292

Pace Analytical Services, LLC

Page_2_of_2

Internal Transfer C Workorder: 40249619 Wo	Chain	of Custoc × Sample Jame: 069638	y s Pre-Logged 3.00.073	into eCC	DC.	Stat Cert Owr	e Of Orig Needed ier Recei	in:V :××	VI Yes Date:	8/10] No - /2022		# : 950	1062 	2 0950 y: 8/24/2022
Tod Noltemeyer Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436		Pace / 1700 Suite : Minne Phone	Analytical Minn Elm Street SE 200 apolis, MN 554 ≥ (612)607-1700	esota 114)	Pres	awa. Ka	tamors:	PCBs Standard EPA List							
Item Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved			8082							LAB USE ONLY
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3 MW10	PS	8/9/2022 12:00	40249619003	Water	1			X							03
4 MVV13	PS	8/9/2022 12:45	40249619004	Water	1			Х							64
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		8/9/2022 14:05	40249619006	Water	1	┨		<u> </u>		 	_				- WG
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	122	19/9/2022 00:00	40249619008	Vater				<u> </u>							<u> </u>
Transfers Released By		Date/Time	Received B	v			Dato/Tim		. Persona and						
1 Tunn P-V	bri.	8/10/22.1	100	/L	AVE		S/11/1	3(0)							
2	<u> </u>				ine										
3															
Cooler Temperature on Recei	pt 27	°C Cus	tody Seal Y	or N		Rec	eived on	Ice(¥) or	Ν		\$	Sample	es Intact (Dor N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Bace DC#_Title: ENV-FF	RM-MIN4-	0150 \	v05_Sa	ample Condition Upon Receipt
A MARTINE SAMPLER Effective Date: 04/12/	2022			
Sample Condition Upon Receipt Client Name: PACE, WI			Projec	** WO#:10620950
Courier: Fed Ex UPS Pace SpeeDee	USPS Commer	cial	See Exce	PM: FEP Due Date: 08/24/22 CLIENT: PASI-WI
Tracking Number:			0142	
Custody Seal on Cooler/Box Present?	X No	_	Seals In	tact? 🗌 Yes 🖾 No Biological Tissue Frozen? 🏼 Yes 🗌 No 🖾 N/A
Packing Material: Bubble Wrap K Bubb Thormometer: T1(0461) T2(1336) T3(0459) T4(r	ole Bags)254) 🔲 T5(0489)	None	5)	ther: Temp Blank? 🔯 Yes 🗌 No
T7 (0042) □ 01339252/1710 □ 122639810 Did Semples Originate in Mark Viscisio2 □ □ □	5 140792808			Ice: D24Wet Blue None Dry Melted
Did Samples Originate in West Virginia? []Yes [SNo We	ere All Container	Temps Ta	i ken? □Yes	
Temp should be above freezing to 6°C Cooler Te	mp Read w/t	emp bla	ank:	Average Corrected See Exception Temp (no temp blank ENV-FRM-MIN4-0 OC only): 0C
Correction Factor: TRUE Cooler Temp Co	orrected w/to	emp bla	nk:	2.7 °C
USDA Regulated Soil: (X N/A; water sample/Other:_ Did samples originate in a quarantine zone within the I MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps If Yes to either question, fill	Jnited States:)?) AL, AR, C □No d Soil Ch	A, FL, GA, ecklist EN	Date/Initials of Person Examining Contents: D. LA. Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? V-FRM-MIN4-0154 and include with SCUR/COC paperwork.
Location (check one): Duluth 🖄 Min	neapolis 🔲	/irginia		COMMENTS:
Chain of Custody Present and Filled Out?	X Yes			1.
Sampler Name and/or Signature on COC?	Yes		□n/A	3.
Short Hold Time Analysis (<72 hr)?	Yes			If Fecal: <a>k r <a>k <a>k <a>k
Rush Turn Around Time Requested?	Yes	X No		6.
Correct Containers Used?	X Yes			7. 8
-Pace Containers Used?	XYes			0.
Field Filtered Volume Received for Dissolved Tests?	∕Yes		XIN/A	9. 10. Is sediment visible in the dissolved container? Ves No.
Is sufficient information available to reconcile the samples to the COC? Matrix: Mater Soil Oil Other-	X Yes	No	21.977	11. If no, write ID/ Date/Time on Container Below: See Exception ENV-FRM-MIN4-014;
All containers needing acid/base preservation have been checked?	Yes	□No	XN/A	12. Sample #
All containers needing preservation are found to be compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	in ∏Yes	□No	⊠ N/A	\square NaOH \square HNO ₃ \square H ₂ SO ₄ \square Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease DRO/8015 (water) and Dioxin/PFAS	, □Yes	□No	XN/A	Positive for Res. Yes See Exception Chlorine? No pH Paper Lot#
				Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	Yes	ΠΝο	XN/A	
Extra labels present on soil VOA or WIDRO container	s? 🛛 Yes	No	⊠N/A	13. See Exception
Trip Blank Present?	Yes □Ver			ENV-FRM-MIN4-0
Trip Blank Custody Seals Present?	Yes		XIN/A	Pace Trip Blank Lot # (if purchased):
				Field Data Required? Yes No
CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution:				
CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution:	Ð			
CLIENT NOTIFICATION/RESOLUTION Person Contacted: Comments/Resolution: Project Manager Review: ote: Whenever there is a discrepancy affecting North Carolina c		es, a copy	of this form	Date: 08/12/2022

Pace Analytical	CHAIN Submitting a sample Co Cha	J-OF-C vla this cha nditions for	CUSTO ain of custor und at: http	DY Analy ay constitutes a s://info.pacelat	/tical Re cknowledgmen ps.com/hubfs/p	equest D nt and acceptar pas-standard-te lete all releva	OCUME nce of the Pa erms.pdf	ent ace Terms	s and			LAB U	SE UNLY	- Attix W	orkorde .M	r/Login ITJL Log-	Ladei Hi in Numi	are or List Pace Workorder Number or ber Here
ompany: SME		В	Silling Info	ormation:	inter - comp	iete da releve	int heids							ה ה ח ור	 Itti ini		DEAC	are for LAP LISE ONLY
ddress: 882 40th Str	CT SE		マ							ļ		Con	tainer P	reservativ	e Type '		NEAS	Liah Project Manager
eport To:	5,-MI-4950 8	E	mail To:	Megan	Schan	erasm	r-us	a.c	m	U						1		
Aaron Lam	mers		biron,	Lamme	rs@sn	ne-use	a.cor	n		** Pre	servativ thanol i	e Types	: (1) nitria	acid, (2) s	ulfuric ac	id, (3) hy	drochlori	c acld, (4) sodium hydroxide, (5) zinc acetate,
Magan Schone	×C	S	ite Collec 19/ C	tion Info/A	ddress:	.				(C) am	monium	hydro:	cide, (D) 1	ise, (b) su SP, (U) Ur	ipreserve	d, (O) Oth	er	, (A) ascoroic acio, (B) ammonium suirate,
ustomer Project Name/Number:		ş	tate:	County/Cit	/: /:Tim	ne Zone Coll	ected:			-		······	A	nalyses				Lab Profile/Line:
06963	8.00.073		<u>w1 /s</u>	heboyge	in <u>Fils</u> P	<u> TM[] Tr</u>]ET	T					· .				Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N/NA
nall: ucob lindow	Site/Facility ID #:			••	Compliani	ce Monitori	ing?											Custody Signatures Present Y N NA Collector Signature Present A N NA
ollected By (print):	Purchase Order # :		·····		DW PWS	ID #:			1	•								Bottles Intact Y N NA
Jacob Endear	Quote #:				DW Locat	ion Code:			-			1						Sufficient Volume
ollected By (signature):	Turnaround Date R	equired:	:			ely Packed	on lce:		SS (G									Samples Received on Ice Y 144
ample Disposal:	Rush: (Expedite Ch	arges Ap	pply)		Field Filter	red (if appli	cable):		8					1				USDA Regulated Solys
] Dispose as appropriate	[] Same Day] Next	t Day		[]Yes	[] No	•		b ($\sim 10^{-1}$						Residual Chlorine Present Y N NA
] Return] Archive:	[]2 Day []3	Day							ic (P									Cl Strips:
] Hold:	[] 4 Day [] 5			·····	Analysis: _				last				. .					pH Strips:
Matrix Codes (Insert in Matrix bo)	(below): Drinking W	ater (DW	V), Groun	id Water (G	W), Waster	water (WW)),		be: F									Lead Acetate Strips:
		mn /	Coller	ted for	apor (v), O		Res	# of	۲. ۲	00								LAB USE ONLY:
ustomer Sample ID	Matrix * G	rab	Compos	ite Start)	Compo	osite End	CI	Ctns	aine	5		- 19 A. A.						Lab sample # / Comments:
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MWA	GW	8	319/22	945				2	G	X								071
MS (MW 12)	GW	Ą	31912	945				2	G	X								(50)
MSD (MWR)	GW			945				ĺ		X								001
MW9	GW		_	1050						X								002
MWID	GW			1200						X								003
MW13	IGW			1245			<u> </u>			X								004
MW16	<u>GW</u>			1325						X								005
MWLZ	GW	<u> </u>		1405	[_		X								000
Equipment Bank	GW		-\/	1420				- <u>_</u>	11/-	X								001
UUP GW	IGW	der F	V	1	L			V	V									<u> </u>
Samples to be anal	unedat	us. IV	ype of Ice	Usea:	Wet	віце	Dry I	None			SHOR	THOL	DS PRES	ENT (<72	hours):	Y N	N/A	Temp Blank Received: Y N NA
Minneapolis Lab	7	۳.	acking ivi	aterial Used								racking	<u>3 #:</u>		· .			Therm ID#:
1			ndahama		moon of LeE	:00 en mi	· V . N	NIA			Samp	les rec	elved vi	a:				Cooler 1 Therm Corr. Factor:C
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DC#_Title: ENV-FRM-GBAY-0035 v01_Sample Preservation Receipt Form Revision: 3 | Effective Date: | Issued by: Green Bay

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BG1U	1 lite	er cle	ar ola	iss				BP	้วย	250	ml ol	astic	unnre	as			ээт	40 m	n am	her N	la Th	in		JIG	911		amb	oriar	UDDre	-		1	1

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

Qualtrax Document ID: 41307

Pace Analytical Services, LLC

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DC#_Title: ENV-FRM-GBAY-0014 v02_SCUR Revision: 3 | Effective Date | Issued by: Green Bay

Sar	nple Condition Up	oon Receipt Form (SCU	R)
Client Name: <u>SME</u>		Project #:	#: 40249619
Courier: CS Logistics Fed Ex	Speedee TUPS	Waitco	H. 40243013
Client Pace Oth	er:		
Tracking #:			
Custody Seal on Cooler/Box Present:	ves no Seals inta		619
Custody Seal on Samples Present:	es Tho Seals inta		
Packing Material: Bubble Wrap	Bubble Bags		
Thermometer Used SR - 19	Type of Ice: We	Blue Dry None	
Cooler Temperature Uncorr: 2.5 //	Corr: -3	Samp	bles on ice, cooling process has begun
Temp Blank Present: Tyes 7 no	Biologica	Tissue is Frozent Firmer -	Qlivizz
Temp should be above freezing to 6°C.		i yesi n	Date: <u>OIIO/IC</u> /Initials: Y
Biota Samples may be received at < 0°C if shippe	id on Dry Ice.		Labolad By this
Chain of Custody Present:		A 1.	Labeled by initials:
Chain of Custody Filled Out:	Yes DNO DN	A 2	
Chain of Custody Relinguished:		A 0	
Sampler Name & Signature on COC:		A 4	
Samples Arrived within Hold Time:		· · · · · · · · · · · · · · · · · · ·	
- VOA Samples frozen unon respirit		 -	
Short Hold Time Analysis (<72hr):		Date/Time:	
Rush Turn Around Time Requested:			
Sufficient Volume:		1	
For Analysia, Rive Du		8.	
TOT Analysis: Lites Lino MS		·	
Correct Containers Used:	DYes DNo	9.	
-Pace Containers Used:	ØYes □No □N/A		
-Pace IR Containers Used			
Containers Intact:	Piyes TiNo	10	
Filtered volume received for Dissolved texts		<u> </u>	
Sample Labels match COC:		11.	
-Indudos doto //ima //D ta	KIYes LINO LIN/A	12.	
Trie Block Descent	<u> </u>		!
THP Diank Present:	□Yes □No ZN/A	13.	
I rip Blank Custody Seals Present	□Yes □No ØN/A		
Pace Trip Blank Lot # (if purchased):	· · · ·		
Person Contacted		If checked, see at	ached form for additional comments
Comments/ Resolution:	Date/	Time:	
	<u>- </u> :	······································	
		······································	
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PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

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Qualtrax Document ID: 41292

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