



DRAKE Consulting Group, LLC

December 16, 2020

Jennifer Dorman, Environmental Program Associate
Wisconsin Department of Natural Resources
2300 N. Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Groundwater Sample Results Notification for the Former Meta Mold/Amcast North, Amcast Central & Amcast South Brownfield Redevelopment Sites - City of Cedarburg, Ozaukee County, Wisconsin. U.S. EPA Superfund Site ID: WIN 000510210 (Amcast Industrial Site)
DNR BRRTS Numbers: 07-46-581557, 02-46-583162, 02-46-583163, and 02-46-583164

Dear Ms. Dorman:

This letter is being submitted to the Wisconsin Department of Natural Resources (WDNR) on behalf of our client, Oliver Fiontar, LLC to provide notification of the groundwater sample results that were collected from the monitoring wells at the Amcast Industrial and Amcast Automotive Brownfield Redevelopment Site in Cedarburg, Wisconsin.

On November 16, 2020 Drake returned to the site to sample the existing monitoring wells at the Amcast redevelopment property. Three monitoring wells (AMN-MW01, FVMW-26, FVMW-27) were located on the Amcast North property and nine (9) monitoring wells (AMS-MW01, GMMW-1, GMMW-2, GMMW-3, GMMW-4, GMMW-5, GMMW-6, GMMW-7 and FVMW-20) were located on the Amcast Central and Amcast South properties. Groundwater samples were collected from each well and submitted to a WDNR-certified laboratory analysis for the following parameters:

Analytical Parameter	Analytical Method
Volatile Organic Compounds (VOCs)	EPA Method 8260
Poly-cyclic Aromatic Hydrocarbons (PAHs)	EPA Method 8270
Resource Conservation and Recovery Act (RCRA) Metals	EPA Method 6010/7470
Polychlorinated Biphenyls (PCBs)	EPA Method 8082
Total suspended solids	SM 2540D

According to the laboratory analytical results, each of the parameters listed above exhibited concentrations above the Wis. Ad. Code Ch. NR 140 Preventive Action Limit (PAL) and/or Enforcement Standard (ES) in one or more of the monitoring wells sampled at the site.

Amcast North

Monitoring well AMNW-01 exhibited a concentration of trichloroethylene [1.2 micrograms per liter (ug/l)] above the Ch. NR 140 PAL of 0.5 ug/l. Elevated concentrations of three (3) RCRA metals (arsenic, chromium and lead) were also detected above NR 140 standards in the sample collected from AMNW-01. No concentrations of PAHs or PCBs were detected above NR 140 Standards in AMNW-01. No concentrations of VOCs, PAHs, RCRA metals or PCBs were observed to be above NR 140 standards in the groundwater samples collected from FVMW-26 and FVMW-27.

Amcast Central/Amcast South

Eight of the nine (9) monitoring wells sampled in November 2020 demonstrated an exceedance of one or more parameters tested above NR 140 standards. Concentrations of VOCs were detected at GMMW-1 (bromodichloromethane), GMMW-3 (naphthalene and 1,2,4-trimethylbenzene) and FVMW-20 (trichloroethylene) above their respective NR 140 standards.

Concentrations of total arsenic and total chromium were detected above NR 140 standards in five (5) of the nine (9) wells analyzed (AMSMW-01, GMMW-4, GMMW-5, GMMW-6 and GMMW-7). In addition, elevated concentrations of other RCRA metals were detected in the undissolved samples collected from AMSMW-01 (barium and lead), GMMW-3 (arsenic), GMMW-4 (lead), GMMW-5 (cadmium), GMMW-6 (lead) and GMMW-7 (cadmium) above NR 140 standards.

Concentrations of several PAHs were detected above NR 140 standards in the groundwater samples collected from monitoring wells GMMW-3 and GMMW-4. Monitoring well GMMW-3 exhibited a concentration of naphthalene (409 ug/l) above the NR 140 ES of 100 ug/l and fluorene (155^J ug/l) was detected above the NR 140 PAL of 80 ug/l. Monitoring well GMMW-4 exhibited concentrations of benzo(a)pyrene, benzo(b)fluoranthene and chrysene above their respective NR 140 ES values. None of the other groundwater samples submitted for analysis exhibited exceedances of PAHs above NR 140 standards.

Total PCBs were detected above the NR 140 ES (0.03 ug/l) in four (4) of the nine (9) groundwater samples collected from the Amcast Central/South property and include

monitoring wells AMSMW-01 (0.82 ug/l), GMMW-3 (16.1 ug/l), GMMW-5 (0.16^J ug/l) and GMMW-6 (0.11^J ug/l). None of the other groundwater samples submitted for analysis of PCBs exhibited concentrations above NR 140 standards.

The attached contains the complete laboratory analytical results and associated chain of custody for the November 2020 sampling event discussed above.

If you have any questions regarding this monthly update, please contact D.J. Burns, President/Project Director of Drake. His office telephone number is (262) 241-0005 and his cell phone number is (414) 881-0003.

Sincerely,

Drake Consulting Group, LLC

A handwritten signature in black ink, appearing to read 'C. Corson', with a long horizontal flourish extending to the right.

Chelsea Corson
Senior Project Manager

Attachments

cc: Oliver Fiontar, LLC

December 07, 2020

Chelsea Corson
Drake Consulting Group, LLC
118 N. Green Bay Road
Suite 2
Thiensville, WI 53092

RE: Project: J16001 AMCAST
Pace Project No.: 40218604

Dear Chelsea Corson:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2020. 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,



Brian Basten for
Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Carly Corson, Drake Consulting Group, LLC
Tim Giuliani, Drake Consulting Group, LLC



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: J16001 AMCAST

Pace Project No.: 40218604

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: J16001 AMCAST

Pace Project No.: 40218604

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40218604001	FVMW-26	Water	11/16/20 12:30	11/18/20 11:05
40218604002	FVMW-27	Water	11/16/20 13:00	11/18/20 11:05
40218604003	AMN-MW1	Water	11/16/20 13:30	11/18/20 11:05
40218604004	GMMW-1	Water	11/16/20 11:55	11/18/20 11:05
40218604005	GMMW-2	Water	11/16/20 11:30	11/18/20 11:05
40218604006	GMMW-3	Water	11/16/20 10:05	11/18/20 11:05
40218604007	GMMW-4	Water	11/16/20 10:15	11/18/20 11:05
40218604008	GMMW-5	Water	11/16/20 10:10	11/18/20 11:05
40218604009	GMMW-6	Water	11/16/20 10:50	11/18/20 11:05
40218604010	GMMW-7	Water	11/16/20 11:10	11/18/20 11:05
40218604011	FVMW-20	Water	11/16/20 09:40	11/18/20 11:05
40218604012	AMS-MW1	Water	11/16/20 10:30	11/18/20 11:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: J16001 AMCAST
Pace Project No.: 40218604

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40218604001	FVMW-26	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		40218604002	FVMW-27	EPA 8082	BLM
EPA 6010	TXW			7	PASI-G
EPA 6010	TXW			7	PASI-G
EPA 7470	AJT			1	PASI-G
EPA 7470	AJT			1	PASI-G
EPA 8270	RJN			70	PASI-G
EPA 8260	LAP			64	PASI-G
SM 2540D	JXM			1	PASI-G
40218604003	AMN-MW1			EPA 8082	BLM
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		40218604004	GMMW-1	EPA 8082	BLM
EPA 6010	TXW			7	PASI-G
EPA 6010	TXW			7	PASI-G
EPA 7470	AJT			1	PASI-G
EPA 7470	AJT			1	PASI-G
EPA 8270	RJN			70	PASI-G
EPA 8260	LAP			64	PASI-G
SM 2540D	JXM			1	PASI-G
40218604005	GMMW-2			EPA 8082	BLM
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: J16001 AMCAST
Pace Project No.: 40218604

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40218604006	GMMW-3	EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
40218604007	GMMW-4	SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
40218604008	GMMW-5	EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
40218604009	GMMW-6	EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
40218604010	GMMW-7	EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
		EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G

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SAMPLE ANALYTE COUNT

Project: J16001 AMCAST

Pace Project No.: 40218604

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
40218604011	FVMW-20	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G
40218604012	AMS-MW1	EPA 8082	BLM	10	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270	RJN	70	PASI-G
		EPA 8260	LAP	64	PASI-G
		SM 2540D	JXM	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 8082

Description: 8082 GCS PCB

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for EPA 8082 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 3510 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.

QC Batch: 371985

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 6010

Description: 6010 MET ICP

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

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

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

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

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- AMN-MW1 (Lab ID: 40218604003)
- AMS-MW1 (Lab ID: 40218604012)
- FVMW-20 (Lab ID: 40218604011)
- FVMW-26 (Lab ID: 40218604001)
- FVMW-27 (Lab ID: 40218604002)
- GMMW-1 (Lab ID: 40218604004)
- GMMW-2 (Lab ID: 40218604005)
- GMMW-3 (Lab ID: 40218604006)
- GMMW-4 (Lab ID: 40218604007)
- GMMW-5 (Lab ID: 40218604008)
- GMMW-6 (Lab ID: 40218604009)
- GMMW-7 (Lab ID: 40218604010)

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 7470

Description: 7470 Mercury

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for EPA 7470 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 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 7470

Description: 7470 Mercury, Dissolved

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for EPA 7470 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.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.

- AMN-MW1 (Lab ID: 40218604003)
- AMS-MW1 (Lab ID: 40218604012)
- FVMW-20 (Lab ID: 40218604011)
- FVMW-26 (Lab ID: 40218604001)
- FVMW-27 (Lab ID: 40218604002)
- GMMW-1 (Lab ID: 40218604004)
- GMMW-2 (Lab ID: 40218604005)
- GMMW-3 (Lab ID: 40218604006)
- GMMW-4 (Lab ID: 40218604007)
- GMMW-5 (Lab ID: 40218604008)
- GMMW-6 (Lab ID: 40218604009)
- GMMW-7 (Lab ID: 40218604010)

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 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for EPA 8270 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 3510 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.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

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

QC Batch: 371876

S0: Surrogate recovery outside laboratory control limits.

- GMMW-4 (Lab ID: 40218604007)
 - 2-Fluorobiphenyl (S)
- GMMW-7 (Lab ID: 40218604010)
 - 2,4,6-Tribromophenol (S)

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- GMMW-3 (Lab ID: 40218604006)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)

Method Blank:

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

QC Batch: 371876

B: Analyte was detected in the associated method blank.

- BLANK for HBN 371876 [OEXT/476 (Lab ID: 2150346)]
 - Benzo(a)anthracene
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: Drake Consulting Group, LLC

Date: December 07, 2020

QC Batch: 371876

B: Analyte was detected in the associated method blank.

- Benzo(k)fluoranthene

Laboratory Control Spike:

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

QC Batch: 371876

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

- LCS (Lab ID: 2150348)
- 2,4-Dinitrophenol

Matrix Spikes:

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

QC Batch: 371876

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 371876

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

- GMMW-3 (Lab ID: 40218604006)
- Phenol

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PROJECT NARRATIVE

Project: J16001 AMCAST

Pace Project No.: 40218604

Method: EPA 8260

Description: 8260 MSV

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for EPA 8260 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.

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.

Internal Standards:

All internal standards were within QC limits 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: J16001 AMCAST

Pace Project No.: 40218604

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: Drake Consulting Group, LLC

Date: December 07, 2020

General Information:

12 samples were analyzed for SM 2540D 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.

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.

Duplicate Sample:

All duplicate sample results were within method 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: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-26 **Lab ID: 40218604001** Collected: 11/16/20 12:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	11096-82-5	
PCB, Total	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	66	%	39-127		1	11/20/20 15:41	11/23/20 10:32	877-09-8	
Decachlorobiphenyl (S)	28	%	15-121		1	11/20/20 15:41	11/23/20 10:32	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<8.3	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:30	7440-38-2	
Barium	124	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:30	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:30	7440-43-9	
Chromium	<2.5	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:30	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:30	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:30	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:30	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:21	7440-38-2	
Barium, Dissolved	105	ug/L	5.0	1.5	1		12/03/20 17:21	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:21	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:21	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:21	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:21	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:21	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 10:56	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 12:58	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 09:00	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:00	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-26 **Lab ID: 40218604001** Collected: 11/16/20 12:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 09:00	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:00	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 09:00	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 09:00	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 09:00	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 09:00	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 09:00	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:00	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:00	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:00	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 09:00	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 09:00	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:00	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 09:00		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:00	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:00	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 09:00	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 09:00	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 09:00	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 09:00	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:00	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 09:00	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 09:00	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 09:00	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 09:00	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 09:00	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 09:00	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 09:00	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:00	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 09:00	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 09:00	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 09:00	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:00	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 09:00	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 09:00	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 09:00	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-26 **Lab ID: 40218604001** Collected: 11/16/20 12:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 09:00	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 09:00	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 09:00	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:00	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:00	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 09:00	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 09:00	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 09:00	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 09:00	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 09:00	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:00	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:00	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 09:00	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	77	%	41-118		1	11/19/20 16:11	11/23/20 09:00	4165-60-0	
2-Fluorobiphenyl (S)	67	%	54-107		1	11/19/20 16:11	11/23/20 09:00	321-60-8	
Terphenyl-d14 (S)	93	%	51-129		1	11/19/20 16:11	11/23/20 09:00	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	11/19/20 16:11	11/23/20 09:00	13127-88-3	
2-Fluorophenol (S)	43	%	23-69		1	11/19/20 16:11	11/23/20 09:00	367-12-4	
2,4,6-Tribromophenol (S)	74	%	62-172		1	11/19/20 16:11	11/23/20 09:00	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 11:26	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 11:26	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 11:26	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 11:26	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 11:26	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 11:26	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 11:26	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 11:26	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 11:26	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 11:26	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 11:26	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 11:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 11:26	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 11:26	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 11:26	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 11:26	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 11:26	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 11:26	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-26 **Lab ID: 40218604001** Collected: 11/16/20 12:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 11:26	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 11:26	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 11:26	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 11:26	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 11:26	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 11:26	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 11:26	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 11:26	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 11:26	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 11:26	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 11:26	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 11:26	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 11:26	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 11:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 11:26	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 11:26	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 11:26	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 11:26	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 11:26	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 11:26	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 11:26	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 11:26	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 11:26	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 11:26	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 11:26	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 11:26	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 11:26	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 11:26	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 11:26	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 11:26	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 11:26	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 11:26	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 11:26	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 11:26	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 11:26	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 11:26	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 11:26	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 11:26	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 11:26	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 11:26	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 11:26	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 11:26	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 11:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/20/20 11:26	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-26 **Lab ID: 40218604001** Collected: 11/16/20 12:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		11/20/20 11:26	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/20/20 11:26	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	23.6	mg/L	4.0	1.9	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-27 **Lab ID: 40218604002** Collected: 11/16/20 13:00 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	11096-82-5	
PCB, Total	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 10:53	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	77	%	39-127		1	11/20/20 15:41	11/23/20 10:53	877-09-8	
Decachlorobiphenyl (S)	49	%	15-121		1	11/20/20 15:41	11/23/20 10:53	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<8.3	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:33	7440-38-2	
Barium	124	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:33	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:33	7440-43-9	
Chromium	8.7J	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:33	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:33	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:33	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:33	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:30	7440-38-2	
Barium, Dissolved	111	ug/L	5.0	1.5	1		12/03/20 17:30	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:30	7440-43-9	
Chromium, Dissolved	7.1J	ug/L	10.0	2.5	1		12/03/20 17:30	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:30	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:30	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:30	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:03	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:10	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 09:42	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:42	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-27 Lab ID: 40218604002 Collected: 11/16/20 13:00 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 09:42	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:42	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 09:42	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 09:42	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 09:42	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 09:42	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 09:42	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:42	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:42	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:42	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 09:42	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 09:42	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:42	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 09:42		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:42	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:42	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 09:42	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 09:42	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 09:42	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 09:42	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 09:42	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 09:42	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 09:42	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 09:42	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 09:42	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 09:42	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 09:42	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 09:42	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 09:42	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 09:42	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 09:42	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 09:42	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:42	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 09:42	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 09:42	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 09:42	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-27 **Lab ID: 40218604002** Collected: 11/16/20 13:00 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 09:42	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 09:42	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 09:42	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 09:42	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 09:42	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 09:42	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 09:42	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 09:42	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 09:42	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 09:42	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 09:42	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 09:42	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 09:42	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	77	%	41-118		1	11/19/20 16:11	11/23/20 09:42	4165-60-0	
2-Fluorobiphenyl (S)	68	%	54-107		1	11/19/20 16:11	11/23/20 09:42	321-60-8	
Terphenyl-d14 (S)	93	%	51-129		1	11/19/20 16:11	11/23/20 09:42	1718-51-0	
Phenol-d6 (S)	31	%	12-120		1	11/19/20 16:11	11/23/20 09:42	13127-88-3	
2-Fluorophenol (S)	46	%	23-69		1	11/19/20 16:11	11/23/20 09:42	367-12-4	
2,4,6-Tribromophenol (S)	79	%	62-172		1	11/19/20 16:11	11/23/20 09:42	118-79-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/23/20 17:16	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/23/20 17:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/23/20 17:16	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/23/20 17:16	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/23/20 17:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/23/20 17:16	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/23/20 17:16	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/23/20 17:16	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/23/20 17:16	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/23/20 17:16	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/23/20 17:16	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/23/20 17:16	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/23/20 17:16	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/23/20 17:16	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/23/20 17:16	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/23/20 17:16	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/23/20 17:16	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/23/20 17:16	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-27 **Lab ID: 40218604002** Collected: 11/16/20 13:00 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/23/20 17:16	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/23/20 17:16	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/23/20 17:16	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/23/20 17:16	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/23/20 17:16	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/23/20 17:16	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/23/20 17:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/23/20 17:16	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/23/20 17:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/23/20 17:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/23/20 17:16	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/23/20 17:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/23/20 17:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/23/20 17:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/23/20 17:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/23/20 17:16	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/23/20 17:16	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/23/20 17:16	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/23/20 17:16	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/23/20 17:16	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/23/20 17:16	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/23/20 17:16	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/23/20 17:16	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/23/20 17:16	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/23/20 17:16	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/23/20 17:16	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/23/20 17:16	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/23/20 17:16	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/23/20 17:16	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 12:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/23/20 17:16	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/23/20 17:16	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/23/20 17:16	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/23/20 17:16	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/23/20 17:16	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/23/20 17:16	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/23/20 17:16	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/23/20 17:16	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/23/20 17:16	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/23/20 17:16	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/23/20 17:16	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/23/20 17:16	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/23/20 17:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/23/20 17:16	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-27 **Lab ID: 40218604002** Collected: 11/16/20 13:00 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		11/23/20 17:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/23/20 17:16	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	15.8	mg/L	2.0	0.95	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: AMN-MW1 **Lab ID: 40218604003** Collected: 11/16/20 13:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	11096-82-5	
PCB, Total	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	63	%	39-127		1	11/20/20 15:41	11/23/20 11:12	877-09-8	
Decachlorobiphenyl (S)	18	%	15-121		1	11/20/20 15:41	11/23/20 11:12	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	12.5J	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:35	7440-38-2	
Barium	183	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:35	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:35	7440-43-9	
Chromium	319	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:35	7440-47-3	
Lead	12.0J	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:35	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:35	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:35	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:35	7440-38-2	
Barium, Dissolved	90.5	ug/L	5.0	1.5	1		12/03/20 17:35	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:35	7440-43-9	
Chromium, Dissolved	250	ug/L	10.0	2.5	1		12/03/20 17:35	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:35	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:35	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:35	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:05	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:12	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 10:03	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:03	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: AMN-MW1 **Lab ID: 40218604003** Collected: 11/16/20 13:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 10:03	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:03	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 10:03	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 10:03	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 10:03	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 10:03	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:03	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:03	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:03	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:03	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 10:03	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 10:03	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:03	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 10:03		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:03	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:03	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 10:03	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:03	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 10:03	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 10:03	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:03	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 10:03	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 10:03	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 10:03	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 10:03	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 10:03	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:03	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 10:03	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:03	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 10:03	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 10:03	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:03	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:03	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 10:03	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 10:03	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 10:03	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: AMN-MW1 **Lab ID: 40218604003** Collected: 11/16/20 13:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 10:03	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 10:03	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 10:03	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:03	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:03	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 10:03	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:03	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 10:03	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:03	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 10:03	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:03	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:03	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 10:03	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	71	%	41-118		1	11/19/20 16:11	11/23/20 10:03	4165-60-0	
2-Fluorobiphenyl (S)	67	%	54-107		1	11/19/20 16:11	11/23/20 10:03	321-60-8	
Terphenyl-d14 (S)	97	%	51-129		1	11/19/20 16:11	11/23/20 10:03	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	11/19/20 16:11	11/23/20 10:03	13127-88-3	
2-Fluorophenol (S)	43	%	23-69		1	11/19/20 16:11	11/23/20 10:03	367-12-4	
2,4,6-Tribromophenol (S)	74	%	62-172		1	11/19/20 16:11	11/23/20 10:03	118-79-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 12:37	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 12:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 12:37	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 12:37	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 12:37	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 12:37	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 12:37	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 12:37	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 12:37	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 12:37	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 12:37	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 12:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 12:37	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 12:37	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 12:37	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 12:37	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 12:37	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 12:37	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: AMN-MW1 **Lab ID: 40218604003** Collected: 11/16/20 13:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 12:37	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 12:37	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 12:37	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 12:37	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 12:37	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 12:37	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 12:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 12:37	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 12:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 12:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 12:37	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 12:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 12:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 12:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 12:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 12:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 12:37	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 12:37	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 12:37	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 12:37	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 12:37	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 12:37	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 12:37	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 12:37	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 12:37	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 12:37	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 12:37	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 12:37	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 12:37	108-88-3	
Trichloroethene	1.2	ug/L	1.0	0.26	1		11/20/20 12:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 12:37	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 12:37	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 12:37	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 12:37	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 12:37	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 12:37	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 12:37	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 12:37	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 12:37	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 12:37	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 12:37	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 12:37	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 12:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/20/20 12:37	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: AMN-MW1 **Lab ID: 40218604003** Collected: 11/16/20 13:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		11/20/20 12:37	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/20/20 12:37	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	2200	mg/L	33.3	15.8	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-1 **Lab ID: 40218604004** Collected: 11/16/20 11:55 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	11096-82-5	
PCB, Total	<0.11	ug/L	0.48	0.11	1	11/20/20 15:41	11/23/20 11:32	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	62	%	39-127		1	11/20/20 15:41	11/23/20 11:32	877-09-8	
Decachlorobiphenyl (S)	24	%	15-121		1	11/20/20 15:41	11/23/20 11:32	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<8.3	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:38	7440-38-2	
Barium	113	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:38	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:38	7440-43-9	
Chromium	4.2J	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:38	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:38	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:38	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:38	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:37	7440-38-2	
Barium, Dissolved	103	ug/L	5.0	1.5	1		12/03/20 17:37	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:37	7440-43-9	
Chromium, Dissolved	2.5J	ug/L	10.0	2.5	1		12/03/20 17:37	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:37	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:37	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:37	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:07	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:15	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 10:24	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:24	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-1 Lab ID: 40218604004 Collected: 11/16/20 11:55 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 10:24	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:24	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 10:24	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 10:24	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 10:24	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 10:24	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:24	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:24	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:24	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:24	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 10:24	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 10:24	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:24	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 10:24		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:24	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:24	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 10:24	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:24	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 10:24	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 10:24	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:24	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 10:24	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 10:24	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 10:24	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 10:24	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 10:24	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:24	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 10:24	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:24	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 10:24	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 10:24	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:24	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:24	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 10:24	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 10:24	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 10:24	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-1 **Lab ID: 40218604004** Collected: 11/16/20 11:55 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 10:24	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 10:24	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 10:24	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:24	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:24	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 10:24	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:24	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 10:24	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:24	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 10:24	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:24	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:24	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 10:24	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	83	%	41-118		1	11/19/20 16:11	11/23/20 10:24	4165-60-0	
2-Fluorobiphenyl (S)	72	%	54-107		1	11/19/20 16:11	11/23/20 10:24	321-60-8	
Terphenyl-d14 (S)	93	%	51-129		1	11/19/20 16:11	11/23/20 10:24	1718-51-0	
Phenol-d6 (S)	30	%	12-120		1	11/19/20 16:11	11/23/20 10:24	13127-88-3	
2-Fluorophenol (S)	48	%	23-69		1	11/19/20 16:11	11/23/20 10:24	367-12-4	
2,4,6-Tribromophenol (S)	85	%	62-172		1	11/19/20 16:11	11/23/20 10:24	118-79-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:01	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 13:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:01	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 13:01	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:01	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 13:01	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 13:01	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 13:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 13:01	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 13:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 13:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 13:01	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:01	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:01	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:01	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 13:01	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 13:01	541-73-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-1 **Lab ID: 40218604004** Collected: 11/16/20 11:55 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 13:01	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 13:01	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 13:01	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 13:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 13:01	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 13:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 13:01	74-97-5	
Bromodichloromethane	0.53J	ug/L	1.2	0.36	1		11/20/20 13:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 13:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 13:01	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 13:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 13:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 13:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 13:01	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 13:01	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 13:01	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 13:01	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 13:01	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 13:01	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 13:01	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 13:01	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 13:01	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 13:01	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 13:01	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 13:01	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 13:01	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:01	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 13:01	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 13:01	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 13:01	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 13:01	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 13:01	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:01	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 13:01	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 13:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 13:01	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 13:01	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 13:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/20/20 13:01	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-1 **Lab ID: 40218604004** Collected: 11/16/20 11:55 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		11/20/20 13:01	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/20/20 13:01	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	91.2	mg/L	4.0	1.9	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-2 **Lab ID: 40218604005** Collected: 11/16/20 11:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	11096-82-5	
PCB, Total	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 11:52	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	57	%	39-127		1	11/20/20 15:41	11/23/20 11:52	877-09-8	
Decachlorobiphenyl (S)	31	%	15-121		1	11/20/20 15:41	11/23/20 11:52	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<8.3	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:45	7440-38-2	
Barium	66.8	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:45	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:45	7440-43-9	
Chromium	7.9J	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:45	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:45	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:45	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:45	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:45	7440-38-2	
Barium, Dissolved	59.8	ug/L	5.0	1.5	1		12/03/20 17:45	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:45	7440-43-9	
Chromium, Dissolved	6.9J	ug/L	10.0	2.5	1		12/03/20 17:45	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:45	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:45	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:45	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:10	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:17	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 10:45	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:45	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-2 **Lab ID: 40218604005** Collected: 11/16/20 11:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 10:45	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:45	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 10:45	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 10:45	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 10:45	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 10:45	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:45	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:45	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:45	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:45	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 10:45	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 10:45	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:45	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 10:45		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:45	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:45	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 10:45	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:45	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 10:45	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 10:45	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 10:45	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 10:45	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 10:45	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 10:45	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 10:45	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 10:45	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:45	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 10:45	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 10:45	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 10:45	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 10:45	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 10:45	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:45	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 10:45	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 10:45	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 10:45	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-2 **Lab ID: 40218604005** Collected: 11/16/20 11:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 10:45	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 10:45	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 10:45	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 10:45	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 10:45	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 10:45	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 10:45	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 10:45	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 10:45	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 10:45	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 10:45	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 10:45	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 10:45	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	64	%	41-118		1	11/19/20 16:11	11/23/20 10:45	4165-60-0	
2-Fluorobiphenyl (S)	59	%	54-107		1	11/19/20 16:11	11/23/20 10:45	321-60-8	
Terphenyl-d14 (S)	91	%	51-129		1	11/19/20 16:11	11/23/20 10:45	1718-51-0	
Phenol-d6 (S)	26	%	12-120		1	11/19/20 16:11	11/23/20 10:45	13127-88-3	
2-Fluorophenol (S)	38	%	23-69		1	11/19/20 16:11	11/23/20 10:45	367-12-4	
2,4,6-Tribromophenol (S)	80	%	62-172		1	11/19/20 16:11	11/23/20 10:45	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:25	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 13:25	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:25	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 13:25	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:25	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:25	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 13:25	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 13:25	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 13:25	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 13:25	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 13:25	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 13:25	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 13:25	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:25	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:25	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:25	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 13:25	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 13:25	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-2 **Lab ID: 40218604005** Collected: 11/16/20 11:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 13:25	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 13:25	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 13:25	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 13:25	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 13:25	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 13:25	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:25	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 13:25	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 13:25	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 13:25	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 13:25	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 13:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 13:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 13:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 13:25	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 13:25	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 13:25	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 13:25	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 13:25	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 13:25	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 13:25	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 13:25	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 13:25	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 13:25	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 13:25	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 13:25	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 13:25	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:25	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:25	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 13:25	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 13:25	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:25	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 13:25	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 13:25	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:25	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 13:25	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:25	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 13:25	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 13:25	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 13:25	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 13:25	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 13:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/20/20 13:25	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-2 **Lab ID: 40218604005** Collected: 11/16/20 11:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		11/20/20 13:25	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/20/20 13:25	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	12.0	mg/L	2.0	0.95	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-3 **Lab ID: 40218604006** Collected: 11/16/20 10:05 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.32	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.32	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.32	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.32	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	53469-21-9	
PCB-1248 (Aroclor 1248)	15.2	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.32	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	11097-69-1	
PCB-1260 (Aroclor 1260)	0.94J	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	11096-82-5	
PCB, Total	16.1	ug/L	1.4	0.32	3	11/20/20 15:41	11/23/20 13:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	44	%	39-127		3	11/20/20 15:41	11/23/20 13:54	877-09-8	
Decachlorobiphenyl (S)	25	%	15-121		3	11/20/20 15:41	11/23/20 13:54	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	15.4J	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:47	7440-38-2	
Barium	79.7	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:47	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:47	7440-43-9	
Chromium	7.3J	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:47	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:47	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:47	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:47	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:47	7440-38-2	
Barium, Dissolved	30.1	ug/L	5.0	1.5	1		12/03/20 17:47	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:47	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:47	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:47	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:47	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:47	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:12	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:19	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<74.8	ug/L	249	74.8	50	11/19/20 16:11	11/23/20 11:06	120-82-1	
1,2-Dichlorobenzene	<68.8	ug/L	238	68.8	50	11/19/20 16:11	11/23/20 11:06	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-3 **Lab ID: 40218604006** Collected: 11/16/20 10:05 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<73.5	ug/L	245	73.5	50	11/19/20 16:11	11/23/20 11:06	541-73-1	
1,4-Dichlorobenzene	<68.6	ug/L	238	68.6	50	11/19/20 16:11	11/23/20 11:06	106-46-7	
2,2'-Oxybis(1-chloropropane)	<58.7	ug/L	238	58.7	50	11/19/20 16:11	11/23/20 11:06	108-60-1	
2,4,5-Trichlorophenol	<30.7	ug/L	238	30.7	50	11/19/20 16:11	11/23/20 11:06	95-95-4	
2,4,6-Trichlorophenol	<38.0	ug/L	238	38.0	50	11/19/20 16:11	11/23/20 11:06	88-06-2	
2,4-Dichlorophenol	<42.7	ug/L	238	42.7	50	11/19/20 16:11	11/23/20 11:06	120-83-2	
2,4-Dimethylphenol	<55.2	ug/L	238	55.2	50	11/19/20 16:11	11/23/20 11:06	105-67-9	
2,4-Dinitrophenol	<117	ug/L	476	117	50	11/19/20 16:11	11/23/20 11:06	51-28-5	L2
2,4-Dinitrotoluene	<50.5	ug/L	238	50.5	50	11/19/20 16:11	11/23/20 11:06	121-14-2	
2,6-Dinitrotoluene	<36.8	ug/L	238	36.8	50	11/19/20 16:11	11/23/20 11:06	606-20-2	
2-Chloronaphthalene	<39.5	ug/L	238	39.5	50	11/19/20 16:11	11/23/20 11:06	91-58-7	
2-Chlorophenol	<39.4	ug/L	238	39.4	50	11/19/20 16:11	11/23/20 11:06	95-57-8	
2-Methylnaphthalene	801	ug/L	238	55.4	50	11/19/20 16:11	11/23/20 11:06	91-57-6	
2-Methylphenol(o-Cresol)	<44.3	ug/L	238	44.3	50	11/19/20 16:11	11/23/20 11:06	95-48-7	
2-Nitroaniline	<45.1	ug/L	238	45.1	50	11/19/20 16:11	11/23/20 11:06	88-74-4	
2-Nitrophenol	<39.3	ug/L	238	39.3	50	11/19/20 16:11	11/23/20 11:06	88-75-5	
3&4-Methylphenol(m&p Cresol)	<29.2	ug/L	238	29.2	50	11/19/20 16:11	11/23/20 11:06		
3,3'-Dichlorobenzidine	<64.0	ug/L	238	64.0	50	11/19/20 16:11	11/23/20 11:06	91-94-1	
3-Nitroaniline	<64.9	ug/L	238	64.9	50	11/19/20 16:11	11/23/20 11:06	99-09-2	
4,6-Dinitro-2-methylphenol	<148	ug/L	495	148	50	11/19/20 16:11	11/23/20 11:06	534-52-1	
4-Bromophenylphenyl ether	<45.5	ug/L	238	45.5	50	11/19/20 16:11	11/23/20 11:06	101-55-3	
4-Chloro-3-methylphenol	<32.5	ug/L	238	32.5	50	11/19/20 16:11	11/23/20 11:06	59-50-7	
4-Chloroaniline	<85.1	ug/L	284	85.1	50	11/19/20 16:11	11/23/20 11:06	106-47-8	
4-Chlorophenylphenyl ether	<39.5	ug/L	238	39.5	50	11/19/20 16:11	11/23/20 11:06	7005-72-3	
4-Nitroaniline	<143	ug/L	476	143	50	11/19/20 16:11	11/23/20 11:06	100-01-6	
4-Nitrophenol	<146	ug/L	486	146	50	11/19/20 16:11	11/23/20 11:06	100-02-7	
Acenaphthene	121J	ug/L	238	36.3	50	11/19/20 16:11	11/23/20 11:06	83-32-9	
Acenaphthylene	<34.8	ug/L	238	34.8	50	11/19/20 16:11	11/23/20 11:06	208-96-8	
Anthracene	<38.6	ug/L	238	38.6	50	11/19/20 16:11	11/23/20 11:06	120-12-7	
Benzo(a)anthracene	<40.3	ug/L	238	40.3	50	11/19/20 16:11	11/23/20 11:06	56-55-3	
Benzo(a)pyrene	<60.6	ug/L	238	60.6	50	11/19/20 16:11	11/23/20 11:06	50-32-8	
Benzo(b)fluoranthene	<49.3	ug/L	238	49.3	50	11/19/20 16:11	11/23/20 11:06	205-99-2	
Benzo(g,h,i)perylene	<65.7	ug/L	238	65.7	50	11/19/20 16:11	11/23/20 11:06	191-24-2	
Benzo(k)fluoranthene	<53.5	ug/L	238	53.5	50	11/19/20 16:11	11/23/20 11:06	207-08-9	
Butylbenzylphthalate	<61.8	ug/L	238	61.8	50	11/19/20 16:11	11/23/20 11:06	85-68-7	
Carbazole	<43.5	ug/L	238	43.5	50	11/19/20 16:11	11/23/20 11:06	86-74-8	
Chrysene	<60.4	ug/L	238	60.4	50	11/19/20 16:11	11/23/20 11:06	218-01-9	
Di-n-butylphthalate	<58.5	ug/L	238	58.5	50	11/19/20 16:11	11/23/20 11:06	84-74-2	
Di-n-octylphthalate	<227	ug/L	757	227	50	11/19/20 16:11	11/23/20 11:06	117-84-0	
Dibenz(a,h)anthracene	<52.6	ug/L	238	52.6	50	11/19/20 16:11	11/23/20 11:06	53-70-3	
Dibenzofuran	74.9J	ug/L	238	40.4	50	11/19/20 16:11	11/23/20 11:06	132-64-9	
Diethylphthalate	<36.9	ug/L	238	36.9	50	11/19/20 16:11	11/23/20 11:06	84-66-2	
Dimethylphthalate	<34.3	ug/L	238	34.3	50	11/19/20 16:11	11/23/20 11:06	131-11-3	
Fluoranthene	<47.1	ug/L	238	47.1	50	11/19/20 16:11	11/23/20 11:06	206-44-0	
Fluorene	155J	ug/L	238	43.1	50	11/19/20 16:11	11/23/20 11:06	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-3 **Lab ID: 40218604006** Collected: 11/16/20 10:05 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<54.7	ug/L	262	54.7	50	11/19/20 16:11	11/23/20 11:06	87-68-3	
Hexachlorobenzene	<78.7	ug/L	238	78.7	50	11/19/20 16:11	11/23/20 11:06	118-74-1	
Hexachlorocyclopentadiene	<48.0	ug/L	238	48.0	50	11/19/20 16:11	11/23/20 11:06	77-47-4	
Hexachloroethane	<67.6	ug/L	238	67.6	50	11/19/20 16:11	11/23/20 11:06	67-72-1	
Indeno(1,2,3-cd)pyrene	<57.9	ug/L	238	57.9	50	11/19/20 16:11	11/23/20 11:06	193-39-5	
Isophorone	<36.9	ug/L	238	36.9	50	11/19/20 16:11	11/23/20 11:06	78-59-1	
N-Nitroso-di-n-propylamine	<54.0	ug/L	238	54.0	50	11/19/20 16:11	11/23/20 11:06	621-64-7	
N-Nitrosodiphenylamine	<164	ug/L	548	164	50	11/19/20 16:11	11/23/20 11:06	86-30-6	
Naphthalene	409	ug/L	238	58.0	50	11/19/20 16:11	11/23/20 11:06	91-20-3	
Nitrobenzene	<51.2	ug/L	238	51.2	50	11/19/20 16:11	11/23/20 11:06	98-95-3	
Pentachlorophenol	<217	ug/L	724	217	50	11/19/20 16:11	11/23/20 11:06	87-86-5	
Phenanthrene	186J	ug/L	238	45.4	50	11/19/20 16:11	11/23/20 11:06	85-01-8	
Phenol	<15.3	ug/L	238	15.3	50	11/19/20 16:11	11/23/20 11:06	108-95-2	D3
Pyrene	<57.2	ug/L	238	57.2	50	11/19/20 16:11	11/23/20 11:06	129-00-0	
bis(2-Chloroethoxy)methane	<62.2	ug/L	238	62.2	50	11/19/20 16:11	11/23/20 11:06	111-91-1	
bis(2-Chloroethyl) ether	<55.6	ug/L	238	55.6	50	11/19/20 16:11	11/23/20 11:06	111-44-4	
bis(2-Ethylhexyl)phthalate	<137	ug/L	457	137	50	11/19/20 16:11	11/23/20 11:06	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	0	%	41-118		50	11/19/20 16:11	11/23/20 11:06	4165-60-0	S4
2-Fluorobiphenyl (S)	95	%	54-107		50	11/19/20 16:11	11/23/20 11:06	321-60-8	
Terphenyl-d14 (S)	112	%	51-129		50	11/19/20 16:11	11/23/20 11:06	1718-51-0	
Phenol-d6 (S)	0	%	12-120		50	11/19/20 16:11	11/23/20 11:06	13127-88-3	S4
2-Fluorophenol (S)	0	%	23-69		50	11/19/20 16:11	11/23/20 11:06	367-12-4	S4
2,4,6-Tribromophenol (S)	76	%	62-172		50	11/19/20 16:11	11/23/20 11:06	118-79-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/23/20 17:40	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		11/23/20 17:40	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/23/20 17:40	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/23/20 17:40	79-00-5	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/23/20 17:40	75-34-3	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		11/23/20 17:40	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/23/20 17:40	563-58-6	
1,2,3-Trichlorobenzene	<11.1	ug/L	36.8	11.1	5		11/23/20 17:40	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/23/20 17:40	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/23/20 17:40	120-82-1	
1,2,4-Trimethylbenzene	123	ug/L	14.0	4.2	5		11/23/20 17:40	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/23/20 17:40	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/23/20 17:40	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/23/20 17:40	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/23/20 17:40	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/23/20 17:40	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/23/20 17:40	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/23/20 17:40	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-3 **Lab ID: 40218604006** Collected: 11/16/20 10:05 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/23/20 17:40	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/23/20 17:40	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/23/20 17:40	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/23/20 17:40	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/23/20 17:40	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		11/23/20 17:40	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/23/20 17:40	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/23/20 17:40	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/23/20 17:40	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/23/20 17:40	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/23/20 17:40	74-83-9	
Carbon tetrachloride	<5.4	ug/L	17.9	5.4	5		11/23/20 17:40	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/23/20 17:40	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		11/23/20 17:40	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/23/20 17:40	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/23/20 17:40	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/23/20 17:40	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/23/20 17:40	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/23/20 17:40	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/23/20 17:40	108-20-3	
Ethylbenzene	39.5	ug/L	5.3	1.6	5		11/23/20 17:40	100-41-4	
Hexachloro-1,3-butadiene	<7.3	ug/L	24.4	7.3	5		11/23/20 17:40	87-68-3	
Isopropylbenzene (Cumene)	9.2J	ug/L	28.1	8.4	5		11/23/20 17:40	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/23/20 17:40	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/23/20 17:40	75-09-2	
Naphthalene	287	ug/L	25.0	5.9	5		11/23/20 17:40	91-20-3	
Styrene	<15.0	ug/L	50.2	15.0	5		11/23/20 17:40	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/23/20 17:40	127-18-4	
Toluene	<1.3	ug/L	5.0	1.3	5		11/23/20 17:40	108-88-3	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		11/24/20 10:16	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/23/20 17:40	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		11/23/20 17:40	75-01-4	
cis-1,2-Dichloroethene	<1.4	ug/L	5.0	1.4	5		11/23/20 17:40	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/23/20 17:40	10061-01-5	
m&p-Xylene	18.6	ug/L	10.0	2.3	5		11/23/20 17:40	179601-23-1	
n-Butylbenzene	6.0J	ug/L	11.8	3.5	5		11/23/20 17:40	104-51-8	
n-Propylbenzene	17.6J	ug/L	25.0	4.1	5		11/23/20 17:40	103-65-1	
o-Xylene	4.9J	ug/L	5.0	1.3	5		11/23/20 17:40	95-47-6	
p-Isopropyltoluene	4.2J	ug/L	13.3	4.0	5		11/23/20 17:40	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/23/20 17:40	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/23/20 17:40	98-06-6	
trans-1,2-Dichloroethene	<2.3	ug/L	7.7	2.3	5		11/23/20 17:40	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/23/20 17:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		11/23/20 17:40	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-3 **Lab ID: 40218604006** Collected: 11/16/20 10:05 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		5		11/23/20 17:40	1868-53-7	
Toluene-d8 (S)	102	%	70-130		5		11/23/20 17:40	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	23.2	mg/L	4.0	1.9	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-4 **Lab ID: 40218604007** Collected: 11/16/20 10:15 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	11096-82-5	
PCB, Total	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	51	%	39-127		1	11/20/20 15:41	11/23/20 14:14	877-09-8	
Decachlorobiphenyl (S)	31	%	15-121		1	11/20/20 15:41	11/23/20 14:14	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	11.0J	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:50	7440-38-2	
Barium	120	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:50	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:50	7440-43-9	
Chromium	13.3	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:50	7440-47-3	
Lead	19.2J	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:50	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:50	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:50	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:50	7440-38-2	
Barium, Dissolved	78.9	ug/L	5.0	1.5	1		12/03/20 17:50	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:50	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:50	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:50	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:50	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:50	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	0.58	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:19	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:22	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 11:27	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:27	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-4 **Lab ID: 40218604007** Collected: 11/16/20 10:15 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 11:27	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:27	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 11:27	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 11:27	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 11:27	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 11:27	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 11:27	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:27	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:27	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:27	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 11:27	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 11:27	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:27	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 11:27		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:27	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:27	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 11:27	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 11:27	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 11:27	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 11:27	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:27	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 11:27	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 11:27	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 11:27	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 11:27	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 11:27	120-12-7	
Benzo(a)anthracene	1.2J	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 11:27	56-55-3	B
Benzo(a)pyrene	1.9J	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	50-32-8	B
Benzo(b)fluoranthene	4.2J	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 11:27	205-99-2	B
Benzo(g,h,i)perylene	2.6J	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:27	191-24-2	
Benzo(k)fluoranthene	1.6J	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	207-08-9	B
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 11:27	86-74-8	
Chrysene	3.1J	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	218-01-9	B
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 11:27	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 11:27	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:27	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 11:27	131-11-3	
Fluoranthene	6.0	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 11:27	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 11:27	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-4 **Lab ID: 40218604007** Collected: 11/16/20 10:15 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 11:27	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 11:27	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 11:27	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:27	67-72-1	
Indeno(1,2,3-cd)pyrene	3.0J	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:27	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 11:27	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 11:27	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 11:27	87-86-5	
Phenanthrene	1.5J	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 11:27	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 11:27	108-95-2	
Pyrene	4.2J	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:27	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:27	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 11:27	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	74	%	41-118		1	11/19/20 16:11	11/23/20 11:27	4165-60-0	
2-Fluorobiphenyl (S)	52	%	54-107		1	11/19/20 16:11	11/23/20 11:27	321-60-8	S0
Terphenyl-d14 (S)	86	%	51-129		1	11/19/20 16:11	11/23/20 11:27	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	11/19/20 16:11	11/23/20 11:27	13127-88-3	
2-Fluorophenol (S)	39	%	23-69		1	11/19/20 16:11	11/23/20 11:27	367-12-4	
2,4,6-Tribromophenol (S)	69	%	62-172		1	11/19/20 16:11	11/23/20 11:27	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:48	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 13:48	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:48	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 13:48	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 13:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:48	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 13:48	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 13:48	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 13:48	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 13:48	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 13:48	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 13:48	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 13:48	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:48	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:48	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 13:48	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 13:48	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 13:48	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-4 **Lab ID: 40218604007** Collected: 11/16/20 10:15 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 13:48	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 13:48	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 13:48	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 13:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 13:48	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 13:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 13:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 13:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 13:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 13:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 13:48	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 13:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 13:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 13:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 13:48	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 13:48	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 13:48	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 13:48	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 13:48	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 13:48	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 13:48	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 13:48	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 13:48	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 13:48	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 13:48	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 13:48	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 13:48	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:48	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 13:48	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 13:48	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 13:48	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 13:48	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 13:48	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 13:48	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 13:48	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 13:48	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 13:48	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 13:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 13:48	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 13:48	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 13:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/20/20 13:48	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-4 **Lab ID: 40218604007** Collected: 11/16/20 10:15 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		1		11/20/20 13:48	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/20/20 13:48	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	203	mg/L	10.0		4.8	1	11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-5 **Lab ID: 40218604008** Collected: 11/16/20 10:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	53469-21-9	
PCB-1248 (Aroclor 1248)	0.16J	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	11096-82-5	
PCB, Total	0.16J	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	58	%	39-127		1	11/20/20 15:41	11/23/20 14:34	877-09-8	
Decachlorobiphenyl (S)	23	%	15-121		1	11/20/20 15:41	11/23/20 14:34	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	143	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:52	7440-38-2	
Barium	274	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:52	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:52	7440-43-9	
Chromium	62.4	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:52	7440-47-3	
Lead	32.4	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:52	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:52	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:52	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:52	7440-38-2	
Barium, Dissolved	118	ug/L	5.0	1.5	1		12/03/20 17:52	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:52	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:52	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:52	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:52	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:52	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:21	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:24	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 11:48	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:48	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-5 **Lab ID: 40218604008** Collected: 11/16/20 10:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 11:48	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:48	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 11:48	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 11:48	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 11:48	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 11:48	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 11:48	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:48	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:48	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:48	95-57-8	
2-Methylnaphthalene	2.1J	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 11:48	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 11:48	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:48	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 11:48		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:48	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:48	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 11:48	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 11:48	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 11:48	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 11:48	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 11:48	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 11:48	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 11:48	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 11:48	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 11:48	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 11:48	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 11:48	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 11:48	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 11:48	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 11:48	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 11:48	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 11:48	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:48	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 11:48	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 11:48	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 11:48	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-5 **Lab ID: 40218604008** Collected: 11/16/20 10:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 11:48	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 11:48	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 11:48	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 11:48	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 11:48	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 11:48	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 11:48	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 11:48	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 11:48	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 11:48	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 11:48	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 11:48	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 11:48	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	72	%	41-118		1	11/19/20 16:11	11/23/20 11:48	4165-60-0	
2-Fluorobiphenyl (S)	57	%	54-107		1	11/19/20 16:11	11/23/20 11:48	321-60-8	
Terphenyl-d14 (S)	84	%	51-129		1	11/19/20 16:11	11/23/20 11:48	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	11/19/20 16:11	11/23/20 11:48	13127-88-3	
2-Fluorophenol (S)	41	%	23-69		1	11/19/20 16:11	11/23/20 11:48	367-12-4	
2,4,6-Tribromophenol (S)	82	%	62-172		1	11/19/20 16:11	11/23/20 11:48	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:12	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 14:12	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:12	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 14:12	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:12	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:12	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 14:12	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 14:12	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 14:12	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 14:12	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 14:12	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 14:12	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 14:12	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:12	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:12	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:12	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 14:12	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 14:12	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-5 **Lab ID: 40218604008** Collected: 11/16/20 10:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 14:12	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 14:12	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 14:12	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 14:12	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 14:12	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 14:12	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 14:12	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 14:12	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 14:12	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 14:12	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 14:12	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:12	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 14:12	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 14:12	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 14:12	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 14:12	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 14:12	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 14:12	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 14:12	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 14:12	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 14:12	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 14:12	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 14:12	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 14:12	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 14:12	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 14:12	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 14:12	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:12	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:12	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 14:12	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 14:12	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:12	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 14:12	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 14:12	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:12	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 14:12	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:12	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 14:12	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 14:12	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 14:12	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 14:12	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 14:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/20/20 14:12	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-5 **Lab ID: 40218604008** Collected: 11/16/20 10:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		11/20/20 14:12	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/20/20 14:12	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	96.8	mg/L	4.0	1.9	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-6 **Lab ID: 40218604009** Collected: 11/16/20 10:50 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	53469-21-9	
PCB-1248 (Aroclor 1248)	0.11J	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	11096-82-5	
PCB, Total	0.11J	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 14:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	62	%	39-127		1	11/20/20 15:41	11/23/20 14:54	877-09-8	
Decachlorobiphenyl (S)	28	%	15-121		1	11/20/20 15:41	11/23/20 14:54	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	13.7J	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:55	7440-38-2	
Barium	241	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:55	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:55	7440-43-9	
Chromium	29.3	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:55	7440-47-3	
Lead	12.9J	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:55	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:55	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:55	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:54	7440-38-2	
Barium, Dissolved	134	ug/L	5.0	1.5	1		12/03/20 17:54	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:54	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:54	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:54	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:54	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:54	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:24	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:26	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 12:09	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:09	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-6 **Lab ID: 40218604009** Collected: 11/16/20 10:50 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 12:09	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:09	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 12:09	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 12:09	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 12:09	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 12:09	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 12:09	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:09	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:09	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:09	95-57-8	
2-Methylnaphthalene	1.6J	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 12:09	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 12:09	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:09	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 12:09		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:09	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:09	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 12:09	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 12:09	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 12:09	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 12:09	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:09	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 12:09	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 12:09	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 12:09	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 12:09	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 12:09	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 12:09	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 12:09	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:09	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 12:09	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 12:09	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 12:09	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:09	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 12:09	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 12:09	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 12:09	86-73-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-6 **Lab ID: 40218604009** Collected: 11/16/20 10:50 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 12:09	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 12:09	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 12:09	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:09	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:09	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 12:09	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 12:09	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 12:09	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 12:09	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 12:09	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:09	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:09	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 12:09	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	75	%	41-118		1	11/19/20 16:11	11/23/20 12:09	4165-60-0	
2-Fluorobiphenyl (S)	60	%	54-107		1	11/19/20 16:11	11/23/20 12:09	321-60-8	
Terphenyl-d14 (S)	79	%	51-129		1	11/19/20 16:11	11/23/20 12:09	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	11/19/20 16:11	11/23/20 12:09	13127-88-3	
2-Fluorophenol (S)	40	%	23-69		1	11/19/20 16:11	11/23/20 12:09	367-12-4	
2,4,6-Tribromophenol (S)	72	%	62-172		1	11/19/20 16:11	11/23/20 12:09	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:36	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 14:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:36	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 14:36	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:36	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:36	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 14:36	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 14:36	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 14:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 14:36	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 14:36	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 14:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 14:36	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:36	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:36	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:36	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 14:36	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 14:36	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: **GMMW-6** Lab ID: **40218604009** Collected: 11/16/20 10:50 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 14:36	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 14:36	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 14:36	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 14:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 14:36	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 14:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 14:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 14:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 14:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 14:36	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 14:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 14:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 14:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 14:36	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 14:36	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 14:36	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 14:36	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 14:36	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 14:36	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 14:36	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 14:36	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 14:36	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 14:36	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 14:36	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 14:36	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 14:36	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:36	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 14:36	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 14:36	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:36	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 14:36	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 14:36	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:36	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 14:36	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:36	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 14:36	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 14:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 14:36	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 14:36	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 14:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/20/20 14:36	460-00-4	HS

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-6 **Lab ID: 40218604009** Collected: 11/16/20 10:50 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	96	%	70-130		1		11/20/20 14:36	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/20/20 14:36	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	762	mg/L	20.0	9.5	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-7 **Lab ID: 40218604010** Collected: 11/16/20 11:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	11096-82-5	
PCB, Total	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:14	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	57	%	39-127		1	11/20/20 15:41	11/23/20 15:14	877-09-8	
Decachlorobiphenyl (S)	36	%	15-121		1	11/20/20 15:41	11/23/20 15:14	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	25.4	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 20:57	7440-38-2	
Barium	362	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 20:57	7440-39-3	
Cadmium	5.6	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 20:57	7440-43-9	
Chromium	36.0	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 20:57	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 20:57	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 20:57	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 20:57	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:57	7440-38-2	
Barium, Dissolved	120	ug/L	5.0	1.5	1		12/03/20 17:57	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:57	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:57	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:57	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:57	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:57	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:26	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:29	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 12:30	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	1	11/19/20 16:11	11/23/20 12:30	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-7 **Lab ID: 40218604010** Collected: 11/16/20 11:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 12:30	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.7	1.4	1	11/19/20 16:11	11/23/20 12:30	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.7	0.61	1	11/19/20 16:11	11/23/20 12:30	95-95-4	
2,4,6-Trichlorophenol	<0.75	ug/L	4.7	0.75	1	11/19/20 16:11	11/23/20 12:30	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.7	0.85	1	11/19/20 16:11	11/23/20 12:30	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.4	2.3	1	11/19/20 16:11	11/23/20 12:30	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.7	1.0	1	11/19/20 16:11	11/23/20 12:30	121-14-2	
2,6-Dinitrotoluene	<0.73	ug/L	4.7	0.73	1	11/19/20 16:11	11/23/20 12:30	606-20-2	
2-Chloronaphthalene	<0.78	ug/L	4.7	0.78	1	11/19/20 16:11	11/23/20 12:30	91-58-7	
2-Chlorophenol	<0.78	ug/L	4.7	0.78	1	11/19/20 16:11	11/23/20 12:30	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	91-57-6	
2-Methylphenol(o-Cresol)	<0.88	ug/L	4.7	0.88	1	11/19/20 16:11	11/23/20 12:30	95-48-7	
2-Nitroaniline	<0.89	ug/L	4.7	0.89	1	11/19/20 16:11	11/23/20 12:30	88-74-4	
2-Nitrophenol	<0.78	ug/L	4.7	0.78	1	11/19/20 16:11	11/23/20 12:30	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.7	0.58	1	11/19/20 16:11	11/23/20 12:30		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.7	1.3	1	11/19/20 16:11	11/23/20 12:30	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.7	1.3	1	11/19/20 16:11	11/23/20 12:30	99-09-2	
4,6-Dinitro-2-methylphenol	<2.9	ug/L	9.8	2.9	1	11/19/20 16:11	11/23/20 12:30	534-52-1	
4-Bromophenylphenyl ether	<0.90	ug/L	4.7	0.90	1	11/19/20 16:11	11/23/20 12:30	101-55-3	
4-Chloro-3-methylphenol	<0.64	ug/L	4.7	0.64	1	11/19/20 16:11	11/23/20 12:30	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.6	1.7	1	11/19/20 16:11	11/23/20 12:30	106-47-8	
4-Chlorophenylphenyl ether	<0.78	ug/L	4.7	0.78	1	11/19/20 16:11	11/23/20 12:30	7005-72-3	
4-Nitroaniline	<2.8	ug/L	9.4	2.8	1	11/19/20 16:11	11/23/20 12:30	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.6	2.9	1	11/19/20 16:11	11/23/20 12:30	100-02-7	
Acenaphthene	<0.72	ug/L	4.7	0.72	1	11/19/20 16:11	11/23/20 12:30	83-32-9	
Acenaphthylene	<0.69	ug/L	4.7	0.69	1	11/19/20 16:11	11/23/20 12:30	208-96-8	
Anthracene	<0.76	ug/L	4.7	0.76	1	11/19/20 16:11	11/23/20 12:30	120-12-7	
Benzo(a)anthracene	<0.80	ug/L	4.7	0.80	1	11/19/20 16:11	11/23/20 12:30	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	50-32-8	
Benzo(b)fluoranthene	<0.98	ug/L	4.7	0.98	1	11/19/20 16:11	11/23/20 12:30	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.7	1.3	1	11/19/20 16:11	11/23/20 12:30	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	85-68-7	
Carbazole	<0.86	ug/L	4.7	0.86	1	11/19/20 16:11	11/23/20 12:30	86-74-8	
Chrysene	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.0	4.5	1	11/19/20 16:11	11/23/20 12:30	117-84-0	
Dibenz(a,h)anthracene	<1.0	ug/L	4.7	1.0	1	11/19/20 16:11	11/23/20 12:30	53-70-3	
Dibenzofuran	<0.80	ug/L	4.7	0.80	1	11/19/20 16:11	11/23/20 12:30	132-64-9	
Diethylphthalate	<0.73	ug/L	4.7	0.73	1	11/19/20 16:11	11/23/20 12:30	84-66-2	
Dimethylphthalate	<0.68	ug/L	4.7	0.68	1	11/19/20 16:11	11/23/20 12:30	131-11-3	
Fluoranthene	<0.93	ug/L	4.7	0.93	1	11/19/20 16:11	11/23/20 12:30	206-44-0	
Fluorene	<0.85	ug/L	4.7	0.85	1	11/19/20 16:11	11/23/20 12:30	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-7 **Lab ID: 40218604010** Collected: 11/16/20 11:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 12:30	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.7	1.6	1	11/19/20 16:11	11/23/20 12:30	118-74-1	
Hexachlorocyclopentadiene	<0.95	ug/L	4.7	0.95	1	11/19/20 16:11	11/23/20 12:30	77-47-4	
Hexachloroethane	<1.3	ug/L	4.7	1.3	1	11/19/20 16:11	11/23/20 12:30	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	193-39-5	
Isophorone	<0.73	ug/L	4.7	0.73	1	11/19/20 16:11	11/23/20 12:30	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	10.8	3.3	1	11/19/20 16:11	11/23/20 12:30	86-30-6	
Naphthalene	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	91-20-3	
Nitrobenzene	<1.0	ug/L	4.7	1.0	1	11/19/20 16:11	11/23/20 12:30	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.3	4.3	1	11/19/20 16:11	11/23/20 12:30	87-86-5	
Phenanthrene	<0.90	ug/L	4.7	0.90	1	11/19/20 16:11	11/23/20 12:30	85-01-8	
Phenol	<0.30	ug/L	4.7	0.30	1	11/19/20 16:11	11/23/20 12:30	108-95-2	
Pyrene	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.7	1.2	1	11/19/20 16:11	11/23/20 12:30	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.7	1.1	1	11/19/20 16:11	11/23/20 12:30	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 12:30	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	79	%	41-118		1	11/19/20 16:11	11/23/20 12:30	4165-60-0	
2-Fluorobiphenyl (S)	61	%	54-107		1	11/19/20 16:11	11/23/20 12:30	321-60-8	
Terphenyl-d14 (S)	74	%	51-129		1	11/19/20 16:11	11/23/20 12:30	1718-51-0	
Phenol-d6 (S)	25	%	12-120		1	11/19/20 16:11	11/23/20 12:30	13127-88-3	
2-Fluorophenol (S)	35	%	23-69		1	11/19/20 16:11	11/23/20 12:30	367-12-4	
2,4,6-Tribromophenol (S)	46	%	62-172		1	11/19/20 16:11	11/23/20 12:30	118-79-6	S0
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:59	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 14:59	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:59	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 14:59	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 14:59	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:59	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 14:59	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 14:59	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 14:59	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 14:59	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 14:59	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 14:59	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 14:59	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:59	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:59	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 14:59	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 14:59	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 14:59	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: GMMW-7 **Lab ID: 40218604010** Collected: 11/16/20 11:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 14:59	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 14:59	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 14:59	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 14:59	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 14:59	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 14:59	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 14:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 14:59	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 14:59	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 14:59	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 14:59	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 14:59	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:59	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 14:59	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 14:59	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 14:59	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 14:59	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 14:59	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 14:59	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 14:59	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 14:59	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 14:59	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 14:59	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 14:59	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 14:59	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 14:59	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 14:59	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 14:59	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:59	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:59	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 14:59	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 14:59	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 14:59	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 14:59	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 14:59	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 14:59	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 14:59	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 14:59	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 14:59	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 14:59	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 14:59	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 14:59	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 14:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/20/20 14:59	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: GMMW-7 **Lab ID: 40218604010** Collected: 11/16/20 11:10 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		11/20/20 14:59	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/20/20 14:59	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	464	mg/L	20.0	9.5	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-20 **Lab ID: 40218604011** Collected: 11/16/20 09:40 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	11096-82-5	
PCB, Total	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	39-127		1	11/20/20 15:41	11/23/20 15:34	877-09-8	
Decachlorobiphenyl (S)	49	%	15-121		1	11/20/20 15:41	11/23/20 15:34	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	<8.3	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 21:00	7440-38-2	
Barium	156	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 21:00	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 21:00	7440-43-9	
Chromium	5.8J	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 21:00	7440-47-3	
Lead	<5.9	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 21:00	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 21:00	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 21:00	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 17:59	7440-38-2	
Barium, Dissolved	132	ug/L	5.0	1.5	1		12/03/20 17:59	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 17:59	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 17:59	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 17:59	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 17:59	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 17:59	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:28	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:31	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 12:51	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:51	95-50-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-20 **Lab ID: 40218604011** Collected: 11/16/20 09:40 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 12:51	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:51	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 12:51	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 12:51	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 12:51	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 12:51	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 12:51	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:51	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:51	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:51	95-57-8	
2-Methylnaphthalene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 12:51	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 12:51	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:51	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 12:51		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:51	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:51	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 12:51	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 12:51	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 12:51	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 12:51	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 12:51	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 12:51	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 12:51	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 12:51	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 12:51	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 12:51	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 12:51	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 12:51	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 12:51	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 12:51	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 12:51	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 12:51	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:51	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 12:51	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 12:51	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 12:51	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-20 **Lab ID: 40218604011** Collected: 11/16/20 09:40 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 12:51	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 12:51	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 12:51	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 12:51	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 12:51	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 12:51	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 12:51	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 12:51	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 12:51	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 12:51	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 12:51	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 12:51	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 12:51	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	76	%	41-118		1	11/19/20 16:11	11/23/20 12:51	4165-60-0	
2-Fluorobiphenyl (S)	60	%	54-107		1	11/19/20 16:11	11/23/20 12:51	321-60-8	
Terphenyl-d14 (S)	82	%	51-129		1	11/19/20 16:11	11/23/20 12:51	1718-51-0	
Phenol-d6 (S)	26	%	12-120		1	11/19/20 16:11	11/23/20 12:51	13127-88-3	
2-Fluorophenol (S)	37	%	23-69		1	11/19/20 16:11	11/23/20 12:51	367-12-4	
2,4,6-Tribromophenol (S)	69	%	62-172		1	11/19/20 16:11	11/23/20 12:51	118-79-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 15:23	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 15:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:23	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 15:23	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 15:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 15:23	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 15:23	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 15:23	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 15:23	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 15:23	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 15:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 15:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 15:23	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:23	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:23	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:23	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 15:23	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 15:23	541-73-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: FVMW-20 **Lab ID: 40218604011** Collected: 11/16/20 09:40 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 15:23	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 15:23	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 15:23	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 15:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 15:23	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 15:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 15:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 15:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 15:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 15:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 15:23	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 15:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 15:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 15:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 15:23	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 15:23	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 15:23	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 15:23	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 15:23	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 15:23	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 15:23	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 15:23	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 15:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 15:23	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 15:23	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 15:23	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 15:23	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 15:23	108-88-3	
Trichloroethene	0.52J	ug/L	1.0	0.26	1		11/20/20 15:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 15:23	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 15:23	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 15:23	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 15:23	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 15:23	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:23	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 15:23	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 15:23	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 15:23	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 15:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 15:23	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 15:23	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 15:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/20/20 15:23	460-00-4	

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: FVMW-20 **Lab ID: 40218604011** Collected: 11/16/20 09:40 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		11/20/20 15:23	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/20/20 15:23	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	143	mg/L	3.3	1.6	1		11/19/20 06:48		

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: AMS-MW1 **Lab ID: 40218604012** Collected: 11/16/20 10:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
PCB-1016 (Aroclor 1016)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	11141-16-5	
PCB-1242 (Aroclor 1242)	0.82	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.11	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	11096-82-5	
PCB, Total	0.82	ug/L	0.47	0.11	1	11/20/20 15:41	11/23/20 15:54	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	58	%	39-127		1	11/20/20 15:41	11/23/20 15:54	877-09-8	
Decachlorobiphenyl (S)	21	%	15-121		1	11/20/20 15:41	11/23/20 15:54	2051-24-3	
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Pace Analytical Services - Green Bay									
Arsenic	377	ug/L	25.0	8.3	1	11/19/20 13:46	11/23/20 21:02	7440-38-2	
Barium	638	ug/L	5.0	1.5	1	11/19/20 13:46	11/23/20 21:02	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	11/19/20 13:46	11/23/20 21:02	7440-43-9	
Chromium	175	ug/L	10.0	2.5	1	11/19/20 13:46	11/23/20 21:02	7440-47-3	
Lead	66.4	ug/L	20.0	5.9	1	11/19/20 13:46	11/23/20 21:02	7439-92-1	
Selenium	<12.2	ug/L	40.0	12.2	1	11/19/20 13:46	11/23/20 21:02	7782-49-2	
Silver	<3.2	ug/L	10.0	3.2	1	11/19/20 13:46	11/23/20 21:02	7440-22-4	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Arsenic, Dissolved	<13.2	ug/L	25.0	13.2	1		12/03/20 18:02	7440-38-2	
Barium, Dissolved	160	ug/L	5.0	1.5	1		12/03/20 18:02	7440-39-3	
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/03/20 18:02	7440-43-9	
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		12/03/20 18:02	7440-47-3	
Lead, Dissolved	<6.4	ug/L	20.0	6.4	1		12/03/20 18:02	7439-92-1	
Selenium, Dissolved	<12.3	ug/L	40.0	12.3	1		12/03/20 18:02	7782-49-2	
Silver, Dissolved	<3.2	ug/L	10.0	3.2	1		12/03/20 18:02	7440-22-4	P4
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 11:30	7439-97-6	
7470 Mercury, Dissolved									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Pace Analytical Services - Green Bay									
Mercury, Dissolved	<0.066	ug/L	0.20	0.066	1	12/01/20 10:50	12/02/20 13:38	7439-97-6	P4
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,2,4-Trichlorobenzene	<1.5	ug/L	5.0	1.5	1	11/19/20 16:11	11/23/20 13:12	120-82-1	
1,2-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 13:12	95-50-1	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: AMS-MW1 Lab ID: 40218604012 Collected: 11/16/20 10:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Pace Analytical Services - Green Bay									
1,3-Dichlorobenzene	<1.5	ug/L	4.9	1.5	1	11/19/20 16:11	11/23/20 13:12	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 13:12	106-46-7	
2,2'-Oxybis(1-chloropropane)	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	108-60-1	
2,4,5-Trichlorophenol	<0.61	ug/L	4.8	0.61	1	11/19/20 16:11	11/23/20 13:12	95-95-4	
2,4,6-Trichlorophenol	<0.76	ug/L	4.8	0.76	1	11/19/20 16:11	11/23/20 13:12	88-06-2	
2,4-Dichlorophenol	<0.85	ug/L	4.8	0.85	1	11/19/20 16:11	11/23/20 13:12	120-83-2	
2,4-Dimethylphenol	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	105-67-9	
2,4-Dinitrophenol	<2.3	ug/L	9.5	2.3	1	11/19/20 16:11	11/23/20 13:12	51-28-5	L2
2,4-Dinitrotoluene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 13:12	121-14-2	
2,6-Dinitrotoluene	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 13:12	606-20-2	
2-Chloronaphthalene	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 13:12	91-58-7	
2-Chlorophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 13:12	95-57-8	
2-Methylnaphthalene	2.2J	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	91-57-6	
2-Methylphenol(o-Cresol)	<0.89	ug/L	4.8	0.89	1	11/19/20 16:11	11/23/20 13:12	95-48-7	
2-Nitroaniline	<0.90	ug/L	4.8	0.90	1	11/19/20 16:11	11/23/20 13:12	88-74-4	
2-Nitrophenol	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 13:12	88-75-5	
3&4-Methylphenol(m&p Cresol)	<0.58	ug/L	4.8	0.58	1	11/19/20 16:11	11/23/20 13:12		
3,3'-Dichlorobenzidine	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 13:12	91-94-1	
3-Nitroaniline	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 13:12	99-09-2	
4,6-Dinitro-2-methylphenol	<3.0	ug/L	9.9	3.0	1	11/19/20 16:11	11/23/20 13:12	534-52-1	
4-Bromophenylphenyl ether	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 13:12	101-55-3	
4-Chloro-3-methylphenol	<0.65	ug/L	4.8	0.65	1	11/19/20 16:11	11/23/20 13:12	59-50-7	
4-Chloroaniline	<1.7	ug/L	5.7	1.7	1	11/19/20 16:11	11/23/20 13:12	106-47-8	
4-Chlorophenylphenyl ether	<0.79	ug/L	4.8	0.79	1	11/19/20 16:11	11/23/20 13:12	7005-72-3	
4-Nitroaniline	<2.9	ug/L	9.5	2.9	1	11/19/20 16:11	11/23/20 13:12	100-01-6	
4-Nitrophenol	<2.9	ug/L	9.7	2.9	1	11/19/20 16:11	11/23/20 13:12	100-02-7	
Acenaphthene	<0.73	ug/L	4.8	0.73	1	11/19/20 16:11	11/23/20 13:12	83-32-9	
Acenaphthylene	<0.70	ug/L	4.8	0.70	1	11/19/20 16:11	11/23/20 13:12	208-96-8	
Anthracene	<0.77	ug/L	4.8	0.77	1	11/19/20 16:11	11/23/20 13:12	120-12-7	
Benzo(a)anthracene	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 13:12	56-55-3	
Benzo(a)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	50-32-8	
Benzo(b)fluoranthene	<0.99	ug/L	4.8	0.99	1	11/19/20 16:11	11/23/20 13:12	205-99-2	
Benzo(g,h,i)perylene	<1.3	ug/L	4.8	1.3	1	11/19/20 16:11	11/23/20 13:12	191-24-2	
Benzo(k)fluoranthene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	207-08-9	
Butylbenzylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	85-68-7	
Carbazole	<0.87	ug/L	4.8	0.87	1	11/19/20 16:11	11/23/20 13:12	86-74-8	
Chrysene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	218-01-9	
Di-n-butylphthalate	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	84-74-2	
Di-n-octylphthalate	<4.5	ug/L	15.1	4.5	1	11/19/20 16:11	11/23/20 13:12	117-84-0	
Dibenz(a,h)anthracene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	53-70-3	
Dibenzofuran	<0.81	ug/L	4.8	0.81	1	11/19/20 16:11	11/23/20 13:12	132-64-9	
Diethylphthalate	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 13:12	84-66-2	
Dimethylphthalate	<0.69	ug/L	4.8	0.69	1	11/19/20 16:11	11/23/20 13:12	131-11-3	
Fluoranthene	<0.94	ug/L	4.8	0.94	1	11/19/20 16:11	11/23/20 13:12	206-44-0	
Fluorene	<0.86	ug/L	4.8	0.86	1	11/19/20 16:11	11/23/20 13:12	86-73-7	

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: AMS-MW1 **Lab ID: 40218604012** Collected: 11/16/20 10:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510 Pace Analytical Services - Green Bay									
Hexachloro-1,3-butadiene	<1.1	ug/L	5.2	1.1	1	11/19/20 16:11	11/23/20 13:12	87-68-3	
Hexachlorobenzene	<1.6	ug/L	4.8	1.6	1	11/19/20 16:11	11/23/20 13:12	118-74-1	
Hexachlorocyclopentadiene	<0.96	ug/L	4.8	0.96	1	11/19/20 16:11	11/23/20 13:12	77-47-4	
Hexachloroethane	<1.4	ug/L	4.8	1.4	1	11/19/20 16:11	11/23/20 13:12	67-72-1	
Indeno(1,2,3-cd)pyrene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	193-39-5	
Isophorone	<0.74	ug/L	4.8	0.74	1	11/19/20 16:11	11/23/20 13:12	78-59-1	
N-Nitroso-di-n-propylamine	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	621-64-7	
N-Nitrosodiphenylamine	<3.3	ug/L	11.0	3.3	1	11/19/20 16:11	11/23/20 13:12	86-30-6	
Naphthalene	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	91-20-3	
Nitrobenzene	<1.0	ug/L	4.8	1.0	1	11/19/20 16:11	11/23/20 13:12	98-95-3	
Pentachlorophenol	<4.3	ug/L	14.5	4.3	1	11/19/20 16:11	11/23/20 13:12	87-86-5	
Phenanthrene	<0.91	ug/L	4.8	0.91	1	11/19/20 16:11	11/23/20 13:12	85-01-8	
Phenol	<0.31	ug/L	4.8	0.31	1	11/19/20 16:11	11/23/20 13:12	108-95-2	
Pyrene	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	129-00-0	
bis(2-Chloroethoxy)methane	<1.2	ug/L	4.8	1.2	1	11/19/20 16:11	11/23/20 13:12	111-91-1	
bis(2-Chloroethyl) ether	<1.1	ug/L	4.8	1.1	1	11/19/20 16:11	11/23/20 13:12	111-44-4	
bis(2-Ethylhexyl)phthalate	<2.7	ug/L	9.1	2.7	1	11/19/20 16:11	11/23/20 13:12	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	72	%	41-118		1	11/19/20 16:11	11/23/20 13:12	4165-60-0	
2-Fluorobiphenyl (S)	56	%	54-107		1	11/19/20 16:11	11/23/20 13:12	321-60-8	
Terphenyl-d14 (S)	60	%	51-129		1	11/19/20 16:11	11/23/20 13:12	1718-51-0	
Phenol-d6 (S)	27	%	12-120		1	11/19/20 16:11	11/23/20 13:12	13127-88-3	
2-Fluorophenol (S)	40	%	23-69		1	11/19/20 16:11	11/23/20 13:12	367-12-4	
2,4,6-Tribromophenol (S)	69	%	62-172		1	11/19/20 16:11	11/23/20 13:12	118-79-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 15:47	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/20/20 15:47	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:47	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/20/20 15:47	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/20/20 15:47	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/20/20 15:47	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/20/20 15:47	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		11/20/20 15:47	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/20/20 15:47	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/20/20 15:47	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/20/20 15:47	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/20/20 15:47	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/20/20 15:47	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:47	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:47	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/20/20 15:47	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/20/20 15:47	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/20/20 15:47	541-73-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST
Pace Project No.: 40218604

Sample: AMS-MW1 **Lab ID: 40218604012** Collected: 11/16/20 10:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/20/20 15:47	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/20/20 15:47	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/20/20 15:47	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/20/20 15:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/20/20 15:47	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/20/20 15:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/20/20 15:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/20/20 15:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/20/20 15:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/20/20 15:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/20/20 15:47	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		11/20/20 15:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/20/20 15:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/20/20 15:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/20/20 15:47	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/20/20 15:47	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/20/20 15:47	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/20/20 15:47	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/20/20 15:47	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		11/20/20 15:47	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		11/20/20 15:47	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		11/20/20 15:47	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/20/20 15:47	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/20/20 15:47	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/20/20 15:47	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		11/20/20 15:47	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/20/20 15:47	127-18-4	
Toluene	<0.27	ug/L	1.0	0.27	1		11/20/20 15:47	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/20/20 15:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/20/20 15:47	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/20/20 15:47	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/20/20 15:47	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/20/20 15:47	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/20/20 15:47	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/20/20 15:47	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/20/20 15:47	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/20/20 15:47	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/20/20 15:47	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/20/20 15:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/20/20 15:47	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		11/20/20 15:47	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/20/20 15:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/20/20 15:47	460-00-4	HS

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: J16001 AMCAST

Pace Project No.: 40218604

Sample: AMS-MW1 **Lab ID: 40218604012** Collected: 11/16/20 10:30 Received: 11/18/20 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		11/20/20 15:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/20/20 15:47	2037-26-5	
2540D Total Suspended Solids	Analytical Method: SM 2540D Pace Analytical Services - Green Bay								
Total Suspended Solids	353	mg/L	10.0	4.8	1		11/19/20 06:48		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

QC Batch:	372877	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2155571 Matrix: Water
Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<13.2	25.0	12/03/20 17:16	
Barium, Dissolved	ug/L	<1.5	5.0	12/03/20 17:16	
Cadmium, Dissolved	ug/L	<1.3	5.0	12/03/20 17:16	
Chromium, Dissolved	ug/L	<2.5	10.0	12/03/20 17:16	
Lead, Dissolved	ug/L	<6.4	20.0	12/03/20 17:16	
Selenium, Dissolved	ug/L	<12.3	40.0	12/03/20 17:16	
Silver, Dissolved	ug/L	<3.2	10.0	12/03/20 17:16	

LABORATORY CONTROL SAMPLE: 2155572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	473	95	80-120	
Barium, Dissolved	ug/L	500	468	94	80-120	
Cadmium, Dissolved	ug/L	500	473	95	80-120	
Chromium, Dissolved	ug/L	500	487	97	80-120	
Lead, Dissolved	ug/L	500	484	97	80-120	
Selenium, Dissolved	ug/L	500	485	97	80-120	
Silver, Dissolved	ug/L	250	240	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2155574 2155575

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40218604001 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic, Dissolved	ug/L	<13.2	500	500	500	486	490	97	98	75-125	1	20	
Barium, Dissolved	ug/L	105	500	500	500	575	569	94	93	75-125	1	20	
Cadmium, Dissolved	ug/L	<1.3	500	500	500	485	480	97	96	75-125	1	20	
Chromium, Dissolved	ug/L	<2.5	500	500	500	496	495	99	99	75-125	0	20	
Lead, Dissolved	ug/L	<6.4	500	500	500	488	481	98	96	75-125	1	20	
Selenium, Dissolved	ug/L	<12.3	500	500	500	471	484	94	97	75-125	3	20	
Silver, Dissolved	ug/L	<3.2	250	250	250	230	225	92	90	75-125	2	20	

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QUALITY CONTROL DATA

Project: J16001 AMCAST

Pace Project No.: 40218604

QC Batch: 372626

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2154156

Matrix: Water

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.066	0.20	12/02/20 10:51	

LABORATORY CONTROL SAMPLE: 2154157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2154158 2154159

Parameter	Units	40218604001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.066	5	5	4.9	5.1	99	102	85-115	3	20	

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QUALITY CONTROL DATA

Project: J16001 AMCAST

Pace Project No.: 40218604

QC Batch: 372628

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury Dissolved

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2154164

Matrix: Water

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.066	0.20	12/02/20 12:54	

LABORATORY CONTROL SAMPLE: 2154165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2154166 2154167

Parameter	Units	40218604001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.066	5	5	4.8	4.9	97	98	85-115	1	20	

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

QC Batch:	371889	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2150447 Matrix: Water
Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<8.3	25.0	11/23/20 19:52	
Barium	ug/L	<1.5	5.0	11/23/20 19:52	
Cadmium	ug/L	<1.3	5.0	11/23/20 19:52	
Chromium	ug/L	<2.5	10.0	11/23/20 19:52	
Lead	ug/L	<5.9	20.0	11/23/20 19:52	
Selenium	ug/L	<12.2	40.0	11/23/20 19:52	
Silver	ug/L	<3.2	10.0	11/23/20 19:52	

LABORATORY CONTROL SAMPLE: 2150448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	499	100	80-120	
Barium	ug/L	500	490	98	80-120	
Cadmium	ug/L	500	496	99	80-120	
Chromium	ug/L	500	497	99	80-120	
Lead	ug/L	500	510	102	80-120	
Selenium	ug/L	500	506	101	80-120	
Silver	ug/L	250	246	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2150449 2150450

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40218239010 Result	Spike Conc.	Spike Conc.	Conc.								
Arsenic	ug/L	<8.3	500	500	500	480	488	95	96	75-125	2	20	
Barium	ug/L	21.0	500	500	500	506	513	97	98	75-125	1	20	
Cadmium	ug/L	<1.3	500	500	500	469	478	94	96	75-125	2	20	
Chromium	ug/L	14.0	500	500	500	510	522	99	102	75-125	2	20	
Lead	ug/L	<5.9	500	500	500	485	496	97	99	75-125	2	20	
Selenium	ug/L	<12.2	500	500	500	475	484	95	97	75-125	2	20	
Silver	ug/L	<3.2	250	250	250	246	255	98	102	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

QC Batch:	371900	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2150485 Matrix: Water
Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/20/20 07:53	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/20/20 07:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/20/20 07:53	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/20/20 07:53	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/20/20 07:53	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/20/20 07:53	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/20/20 07:53	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	11/20/20 07:53	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/20/20 07:53	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/20/20 07:53	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/20/20 07:53	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/20/20 07:53	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/20/20 07:53	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/20/20 07:53	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/20/20 07:53	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/20/20 07:53	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/20/20 07:53	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/20/20 07:53	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/20/20 07:53	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/20/20 07:53	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/20/20 07:53	
2-Chlorotoluene	ug/L	<0.93	5.0	11/20/20 07:53	
4-Chlorotoluene	ug/L	<0.76	2.5	11/20/20 07:53	
Benzene	ug/L	<0.25	1.0	11/20/20 07:53	
Bromobenzene	ug/L	<0.24	1.0	11/20/20 07:53	
Bromochloromethane	ug/L	<0.36	5.0	11/20/20 07:53	
Bromodichloromethane	ug/L	<0.36	1.2	11/20/20 07:53	
Bromoform	ug/L	<4.0	13.2	11/20/20 07:53	
Bromomethane	ug/L	<0.97	5.0	11/20/20 07:53	
Carbon tetrachloride	ug/L	<1.1	3.6	11/20/20 07:53	
Chlorobenzene	ug/L	<0.71	2.4	11/20/20 07:53	
Chloroethane	ug/L	<1.3	5.0	11/20/20 07:53	
Chloroform	ug/L	<1.3	5.0	11/20/20 07:53	
Chloromethane	ug/L	<2.2	7.3	11/20/20 07:53	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/20/20 07:53	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/20/20 07:53	
Dibromochloromethane	ug/L	<2.6	8.7	11/20/20 07:53	
Dibromomethane	ug/L	<0.94	3.1	11/20/20 07:53	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/20/20 07:53	

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QUALITY CONTROL DATA

Project: J16001 AMCAST

Pace Project No.: 40218604

METHOD BLANK: 2150485

Matrix: Water

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.9	6.3	11/20/20 07:53	
Ethylbenzene	ug/L	<0.32	1.1	11/20/20 07:53	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	11/20/20 07:53	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	11/20/20 07:53	
m&p-Xylene	ug/L	<0.47	2.0	11/20/20 07:53	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/20/20 07:53	
Methylene Chloride	ug/L	<0.58	5.0	11/20/20 07:53	
n-Butylbenzene	ug/L	<0.71	2.4	11/20/20 07:53	
n-Propylbenzene	ug/L	<0.81	5.0	11/20/20 07:53	
Naphthalene	ug/L	<1.2	5.0	11/20/20 07:53	
o-Xylene	ug/L	<0.26	1.0	11/20/20 07:53	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/20/20 07:53	
sec-Butylbenzene	ug/L	<0.85	5.0	11/20/20 07:53	
Styrene	ug/L	<3.0	10.0	11/20/20 07:53	
tert-Butylbenzene	ug/L	<0.30	1.0	11/20/20 07:53	
Tetrachloroethene	ug/L	<0.33	1.1	11/20/20 07:53	
Toluene	ug/L	<0.27	1.0	11/20/20 07:53	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	11/20/20 07:53	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/20/20 07:53	
Trichloroethene	ug/L	<0.26	1.0	11/20/20 07:53	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/20/20 07:53	
Vinyl chloride	ug/L	<0.17	1.0	11/20/20 07:53	
4-Bromofluorobenzene (S)	%	95	70-130	11/20/20 07:53	
Dibromofluoromethane (S)	%	102	70-130	11/20/20 07:53	
Toluene-d8 (S)	%	97	70-130	11/20/20 07:53	

LABORATORY CONTROL SAMPLE: 2150486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.8	120	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	102	64-131	
1,1,2-Trichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethane	ug/L	50	60.7	121	69-163	
1,1-Dichloroethene	ug/L	50	58.6	117	77-123	
1,2,4-Trichlorobenzene	ug/L	50	44.4	89	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.6	91	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.4	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	78-142	
1,2-Dichloropropane	ug/L	50	58.8	118	86-134	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	48.8	98	70-130	
Benzene	ug/L	50	53.9	108	70-130	

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

LABORATORY CONTROL SAMPLE: 2150486

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	54.7	109	70-130	
Bromoform	ug/L	50	48.1	96	70-130	
Bromomethane	ug/L	50	44.9	90	39-129	
Carbon tetrachloride	ug/L	50	57.6	115	70-132	
Chlorobenzene	ug/L	50	55.2	110	70-130	
Chloroethane	ug/L	50	61.8	124	66-140	
Chloroform	ug/L	50	54.0	108	75-132	
Chloromethane	ug/L	50	59.7	119	32-143	
cis-1,2-Dichloroethene	ug/L	50	53.8	108	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.1	98	70-130	
Dibromochloromethane	ug/L	50	52.2	104	70-130	
Dichlorodifluoromethane	ug/L	50	60.9	122	10-141	
Ethylbenzene	ug/L	50	56.2	112	80-120	
Isopropylbenzene (Cumene)	ug/L	50	56.4	113	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	51.6	103	61-129	
Methylene Chloride	ug/L	50	56.4	113	70-130	
o-Xylene	ug/L	50	53.0	106	70-130	
Styrene	ug/L	50	55.3	111	70-130	
Tetrachloroethene	ug/L	50	51.8	104	70-130	
Toluene	ug/L	50	54.4	109	80-120	
trans-1,2-Dichloroethene	ug/L	50	55.2	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	69-130	
Trichloroethene	ug/L	50	55.7	111	70-130	
Trichlorofluoromethane	ug/L	50	65.5	131	75-145	
Vinyl chloride	ug/L	50	63.0	126	51-140	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2152008 2152009

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40218604001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	59.2	58.9	118	118	70-130	0	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.4	49.8	109	100	64-137	9	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.9	50.1	104	100	70-137	4	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	60.4	59.2	121	118	69-163	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	57.4	54.6	115	109	77-129	5	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.4	43.4	95	87	68-130	9	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50.9	49.1	102	98	60-130	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	51.8	49.7	104	99	70-130	4	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.4	50.0	105	100	70-130	5	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	53.2	52.7	106	105	78-145	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

Parameter	Units	2152008			2152009			% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		40218604001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2-Dichloropropane	ug/L	<0.28	50	50	58.6	56.9	117	114	86-135	3	20			
1,3-Dichlorobenzene	ug/L	<0.63	50	50	55.9	51.3	112	103	70-130	9	20			
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.4	49.6	107	99	70-130	7	20			
Benzene	ug/L	<0.25	50	50	54.0	54.2	108	108	70-136	0	20			
Bromodichloromethane	ug/L	<0.36	50	50	55.9	53.2	112	106	70-130	5	20			
Bromoform	ug/L	<4.0	50	50	48.2	48.1	96	96	69-130	0	20			
Bromomethane	ug/L	<0.97	50	50	45.9	48.5	90	96	39-138	5	20			
Carbon tetrachloride	ug/L	<1.1	50	50	56.1	56.8	112	114	70-142	1	20			
Chlorobenzene	ug/L	<0.71	50	50	55.4	53.7	111	107	70-130	3	20			
Chloroethane	ug/L	<1.3	50	50	56.0	58.2	112	116	61-149	4	20			
Chloroform	ug/L	<1.3	50	50	54.2	55.1	108	110	75-133	1	20			
Chloromethane	ug/L	<2.2	50	50	44.7	46.8	89	93	32-143	5	20			
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	54.8	54.6	110	109	70-130	0	20			
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.5	48.9	101	98	70-130	3	20			
Dibromochloromethane	ug/L	<2.6	50	50	52.3	50.5	105	101	70-130	4	20			
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.0	33.0	62	66	10-141	6	20			
Ethylbenzene	ug/L	<0.32	50	50	56.2	55.4	112	111	80-120	1	20			
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	56.1	56.3	112	113	70-130	0	20			
m&p-Xylene	ug/L	<0.47	100	100	111	110	111	110	70-130	1	20			
Methyl-tert-butyl ether	ug/L	<1.2	50	50	52.3	51.7	105	103	61-136	1	20			
Methylene Chloride	ug/L	<0.58	50	50	56.9	57.2	114	114	68-137	1	20			
o-Xylene	ug/L	<0.26	50	50	53.0	52.8	106	106	70-130	0	20			
Styrene	ug/L	<3.0	50	50	56.1	53.3	112	107	70-130	5	20			
Tetrachloroethene	ug/L	<0.33	50	50	50.8	49.0	102	98	70-130	4	20			
Toluene	ug/L	<0.27	50	50	53.8	53.7	108	107	80-120	0	20			
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	56.1	55.4	112	111	70-130	1	20			
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.0	43.5	90	87	69-130	3	20			
Trichloroethene	ug/L	<0.26	50	50	56.6	55.4	113	111	70-130	2	20			
Trichlorofluoromethane	ug/L	<0.21	50	50	59.8	60.8	120	122	74-157	2	20			
Vinyl chloride	ug/L	<0.17	50	50	52.0	53.1	104	106	51-140	2	20			
4-Bromofluorobenzene (S)	%						100	100	70-130					
Dibromofluoromethane (S)	%						104	104	70-130					
Toluene-d8 (S)	%						98	100	70-130					

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

QC Batch:	371985	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3510	Analysis Description:	8082 GCS PCB
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2150894 Matrix: Water
Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1221 (Aroclor 1221)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1232 (Aroclor 1232)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1242 (Aroclor 1242)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1248 (Aroclor 1248)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1254 (Aroclor 1254)	ug/L	<0.056	0.25	11/23/20 08:52	
PCB-1260 (Aroclor 1260)	ug/L	<0.056	0.25	11/23/20 08:52	
Decachlorobiphenyl (S)	%	44	15-121	11/23/20 08:52	
Tetrachloro-m-xylene (S)	%	76	39-127	11/23/20 08:52	

Parameter	Units	2150895		2150896		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD Result						
PCB-1016 (Aroclor 1016)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1221 (Aroclor 1221)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1232 (Aroclor 1232)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1242 (Aroclor 1242)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1248 (Aroclor 1248)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1254 (Aroclor 1254)	ug/L		<0.056	<0.056	<0.056					20	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.0	2.1	2.1	78	83	72-110	6	20	
Decachlorobiphenyl (S)	%					48	44	15-121			
Tetrachloro-m-xylene (S)	%					74	83	39-127			

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

METHOD BLANK: 2150346 Matrix: Water
Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Butylbenzylphthalate	ug/L	<1.3	5.0	11/20/20 08:18	
Carbazole	ug/L	<0.91	5.0	11/20/20 08:18	
Chrysene	ug/L	<1.3	5.0	11/20/20 08:18	
Di-n-butylphthalate	ug/L	<1.2	5.0	11/20/20 08:18	
Di-n-octylphthalate	ug/L	<4.8	15.9	11/20/20 08:18	
Dibenz(a,h)anthracene	ug/L	<1.1	5.0	11/20/20 08:18	
Dibenzofuran	ug/L	<0.85	5.0	11/20/20 08:18	
Diethylphthalate	ug/L	<0.78	5.0	11/20/20 08:18	
Dimethylphthalate	ug/L	<0.72	5.0	11/20/20 08:18	
Fluoranthene	ug/L	<0.99	5.0	11/20/20 08:18	
Fluorene	ug/L	<0.91	5.0	11/20/20 08:18	
Hexachloro-1,3-butadiene	ug/L	<1.1	5.5	11/20/20 08:18	
Hexachlorobenzene	ug/L	<1.7	5.0	11/20/20 08:18	
Hexachlorocyclopentadiene	ug/L	<1.0	5.0	11/20/20 08:18	
Hexachloroethane	ug/L	<1.4	5.0	11/20/20 08:18	
Indeno(1,2,3-cd)pyrene	ug/L	<1.2	5.0	11/20/20 08:18	
Isophorone	ug/L	<0.77	5.0	11/20/20 08:18	
N-Nitroso-di-n-propylamine	ug/L	<1.1	5.0	11/20/20 08:18	
N-Nitrosodiphenylamine	ug/L	<3.4	11.5	11/20/20 08:18	
Naphthalene	ug/L	<1.2	5.0	11/20/20 08:18	
Nitrobenzene	ug/L	<1.1	5.0	11/20/20 08:18	
Pentachlorophenol	ug/L	<4.6	15.2	11/20/20 08:18	
Phenanthrene	ug/L	<0.95	5.0	11/20/20 08:18	
Phenol	ug/L	<0.32	5.0	11/20/20 08:18	
Pyrene	ug/L	<1.2	5.0	11/20/20 08:18	
2,4,6-Tribromophenol (S)	%	65	62-172	11/20/20 08:18	
2-Fluorobiphenyl (S)	%	70	54-107	11/20/20 08:18	
2-Fluorophenol (S)	%	40	23-69	11/20/20 08:18	
Nitrobenzene-d5 (S)	%	77	41-118	11/20/20 08:18	
Phenol-d6 (S)	%	27	12-120	11/20/20 08:18	
Terphenyl-d14 (S)	%	97	51-129	11/20/20 08:18	

LABORATORY CONTROL SAMPLE & LCSD: 2150348

Parameter	Units	2150349		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,2,4-Trichlorobenzene	ug/L	50	37.7	36.6	75	73	64-130	3	20
1,2-Dichlorobenzene	ug/L	50	30.4	31.1	61	62	50-130	2	20
1,3-Dichlorobenzene	ug/L	50	27.0	27.0	54	54	41-130	0	20
1,4-Dichlorobenzene	ug/L	50	28.8	28.5	58	57	46-89	1	20
2,2'-Oxybis(1-chloropropane)	ug/L	50	43.9	44.0	88	88	56-116	0	20
2,4,5-Trichlorophenol	ug/L	50	38.2	37.1	76	74	60-122	3	28
2,4,6-Trichlorophenol	ug/L	50	36.0	37.7	72	75	59-119	5	29
2,4-Dichlorophenol	ug/L	50	36.5	36.1	73	72	50-120	1	33

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QUALITY CONTROL DATA

Project: J16001 AMCAST

Pace Project No.: 40218604

LABORATORY CONTROL SAMPLE & LCSD: 2150348			2150349									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers		
2,4-Dimethylphenol	ug/L	50	26.1	25.8	52	52	36-103	1	35			
2,4-Dinitrophenol	ug/L	50	15.3	19.9	31	40	34-120	26	35	L2		
2,4-Dinitrotoluene	ug/L	50	46.4	48.0	93	96	70-130	3	20			
2,6-Dinitrotoluene	ug/L	50	46.0	47.7	92	95	70-134	4	20			
2-Chloronaphthalene	ug/L	50	43.9	44.0	88	88	70-126	0	20			
2-Chlorophenol	ug/L	50	32.9	33.3	66	67	50-130	1	31			
2-Methylnaphthalene	ug/L	50	43.5	42.5	87	85	70-130	2	20			
2-Methylphenol(o-Cresol)	ug/L	50	30.1	29.7	60	59	47-130	1	31			
2-Nitroaniline	ug/L	50	43.2	43.2	86	86	70-130	0	20			
2-Nitrophenol	ug/L	50	37.6	38.8	75	78	57-128	3	31			
3&4-Methylphenol(m&p Cresol)	ug/L	50	27.6	27.6	55	55	43-130	0	28			
3,3'-Dichlorobenzidine	ug/L	50	28.0	32.2	56	64	36-132	14	21			
3-Nitroaniline	ug/L	50	38.2	39.4	76	79	65-130	3	21			
4,6-Dinitro-2-methylphenol	ug/L	50	30.6	33.0	61	66	47-127	8	26			
4-Bromophenylphenyl ether	ug/L	50	47.9	46.6	96	93	70-130	3	20			
4-Chloro-3-methylphenol	ug/L	50	35.6	34.8	71	70	51-122	2	37			
4-Chloroaniline	ug/L	50	35.4	35.5	71	71	54-130	0	26			
4-Chlorophenylphenyl ether	ug/L	50	46.3	45.9	93	92	70-130	1	20			
4-Nitroaniline	ug/L	50	38.8	41.6	78	83	70-130	7	21			
4-Nitrophenol	ug/L	50	10J	11.7	20	23	11-130		33			
Acenaphthene	ug/L	50	44.6	43.8	89	88	80-120	2	20			
Acenaphthylene	ug/L	50	43.4	43.7	87	87	70-130	1	20			
Anthracene	ug/L	50	49.5	48.4	99	97	70-130	2	20			
Benzo(a)anthracene	ug/L	50	42.2	45.8	84	92	70-130	8	20			
Benzo(a)pyrene	ug/L	50	44.2	44.8	88	90	73-123	1	20			
Benzo(b)fluoranthene	ug/L	50	44.2	44.9	88	90	70-130	2	20			
Benzo(g,h,i)perylene	ug/L	50	46.0	48.0	92	96	69-130	4	20			
Benzo(k)fluoranthene	ug/L	50	46.2	45.8	92	92	70-130	1	20			
bis(2-Chloroethoxy)methane	ug/L	50	47.4	46.7	95	93	70-130	1	20			
bis(2-Chloroethyl) ether	ug/L	50	41.4	42.3	83	85	70-130	2	20			
bis(2-Ethylhexyl)phthalate	ug/L	50	43.0	46.4	86	93	70-136	7	20			
Butylbenzylphthalate	ug/L	50	44.8	46.8	90	94	75-143	4	20			
Carbazole	ug/L	50	49.3	48.5	99	97	70-130	2	20			
Chrysene	ug/L	50	45.7	47.1	91	94	70-135	3	20			
Di-n-butylphthalate	ug/L	50	48.3	47.4	97	95	70-130	2	20			
Di-n-octylphthalate	ug/L	50	37.1	44.2	74	88	64-139	17	20			
Dibenz(a,h)anthracene	ug/L	50	45.0	46.9	90	94	48-141	4	20			
Dibenzofuran	ug/L	50	47.2	46.9	94	94	70-130	1	20			
Diethylphthalate	ug/L	50	45.2	47.2	90	94	70-130	4	20			
Dimethylphthalate	ug/L	50	41.6	42.5	83	85	70-130	2	20			
Fluoranthene	ug/L	50	48.1	47.3	96	95	83-134	1	20			
Fluorene	ug/L	50	46.7	46.5	93	93	70-130	0	20			
Hexachloro-1,3-butadiene	ug/L	50	28.4	30.0	57	60	51-103	6	20			
Hexachlorobenzene	ug/L	50	49.5	46.7	99	93	70-130	6	20			
Hexachlorocyclopentadiene	ug/L	50	18.6	18.8	37	38	21-130	1	24			
Hexachloroethane	ug/L	50	22.3	23.2	45	46	35-102	4	22			
Indeno(1,2,3-cd)pyrene	ug/L	50	39.6	43.5	79	87	63-127	9	20			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16001 AMCAST
Pace Project No.: 40218604

Parameter	Units	2150348		2150349			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Isophorone	ug/L	50	50.1	49.5	100	99	70-130	1	20	
N-Nitroso-di-n-propylamine	ug/L	50	46.9	48.2	94	96	70-130	3	20	
N-Nitrosodiphenylamine	ug/L	50	49.6	48.5	99	97	77-119	2	20	
Naphthalene	ug/L	50	41.7	41.3	83	83	70-130	1	20	
Nitrobenzene	ug/L	50	45.6	44.7	91	89	70-130	2	20	
Pentachlorophenol	ug/L	50	27.3	29.6	55	59	53-101	8	24	
Phenanthrene	ug/L	50	48.3	47.9	97	96	70-130	1	20	
Phenol	ug/L	50	16.0	16.5	32	33	28-120	3	23	
Pyrene	ug/L	50	48.8	46.8	98	94	70-130	4	20	
2,4,6-Tribromophenol (S)	%				80	81	62-172			
2-Fluorobiphenyl (S)	%				77	76	54-107			
2-Fluorophenol (S)	%				43	44	23-69			
Nitrobenzene-d5 (S)	%				82	82	41-118			
Phenol-d6 (S)	%				31	32	12-120			
Terphenyl-d14 (S)	%				95	93	51-129			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: J16001 AMCAST

Pace Project No.: 40218604

QC Batch: 371794

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

METHOD BLANK: 2149971

Matrix: Water

Associated Lab Samples: 40218604001, 40218604002, 40218604003, 40218604004, 40218604005, 40218604006, 40218604007, 40218604008, 40218604009, 40218604010, 40218604011, 40218604012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	11/19/20 06:46	

LABORATORY CONTROL SAMPLE: 2149972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	100	100	80-120	

SAMPLE DUPLICATE: 2149973

Parameter	Units	40218600001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	655	650	1	10	

SAMPLE DUPLICATE: 2149974

Parameter	Units	40218604003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2200	2250	2	10	

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QUALIFIERS

Project: J16001 AMCAST

Pace Project No.: 40218604

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.

BATCH QUALIFIERS

Batch: 371936

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 372057

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

S0 Surrogate recovery outside laboratory control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16001 AMCAST
Pace Project No.: 40218604

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40218604001	FVMW-26	EPA 3510	371985	EPA 8082	372057
40218604002	FVMW-27	EPA 3510	371985	EPA 8082	372057
40218604003	AMN-MW1	EPA 3510	371985	EPA 8082	372057
40218604004	GMMW-1	EPA 3510	371985	EPA 8082	372057
40218604005	GMMW-2	EPA 3510	371985	EPA 8082	372057
40218604006	GMMW-3	EPA 3510	371985	EPA 8082	372057
40218604007	GMMW-4	EPA 3510	371985	EPA 8082	372057
40218604008	GMMW-5	EPA 3510	371985	EPA 8082	372057
40218604009	GMMW-6	EPA 3510	371985	EPA 8082	372057
40218604010	GMMW-7	EPA 3510	371985	EPA 8082	372057
40218604011	FVMW-20	EPA 3510	371985	EPA 8082	372057
40218604012	AMS-MW1	EPA 3510	371985	EPA 8082	372057
40218604001	FVMW-26	EPA 3010	371889	EPA 6010	371991
40218604002	FVMW-27	EPA 3010	371889	EPA 6010	371991
40218604003	AMN-MW1	EPA 3010	371889	EPA 6010	371991
40218604004	GMMW-1	EPA 3010	371889	EPA 6010	371991
40218604005	GMMW-2	EPA 3010	371889	EPA 6010	371991
40218604006	GMMW-3	EPA 3010	371889	EPA 6010	371991
40218604007	GMMW-4	EPA 3010	371889	EPA 6010	371991
40218604008	GMMW-5	EPA 3010	371889	EPA 6010	371991
40218604009	GMMW-6	EPA 3010	371889	EPA 6010	371991
40218604010	GMMW-7	EPA 3010	371889	EPA 6010	371991
40218604011	FVMW-20	EPA 3010	371889	EPA 6010	371991
40218604012	AMS-MW1	EPA 3010	371889	EPA 6010	371991
40218604001	FVMW-26	EPA 6010	372877		
40218604002	FVMW-27	EPA 6010	372877		
40218604003	AMN-MW1	EPA 6010	372877		
40218604004	GMMW-1	EPA 6010	372877		
40218604005	GMMW-2	EPA 6010	372877		
40218604006	GMMW-3	EPA 6010	372877		
40218604007	GMMW-4	EPA 6010	372877		
40218604008	GMMW-5	EPA 6010	372877		
40218604009	GMMW-6	EPA 6010	372877		
40218604010	GMMW-7	EPA 6010	372877		
40218604011	FVMW-20	EPA 6010	372877		
40218604012	AMS-MW1	EPA 6010	372877		
40218604001	FVMW-26	EPA 7470	372626	EPA 7470	372669
40218604002	FVMW-27	EPA 7470	372626	EPA 7470	372669
40218604003	AMN-MW1	EPA 7470	372626	EPA 7470	372669
40218604004	GMMW-1	EPA 7470	372626	EPA 7470	372669
40218604005	GMMW-2	EPA 7470	372626	EPA 7470	372669
40218604006	GMMW-3	EPA 7470	372626	EPA 7470	372669
40218604007	GMMW-4	EPA 7470	372626	EPA 7470	372669
40218604008	GMMW-5	EPA 7470	372626	EPA 7470	372669
40218604009	GMMW-6	EPA 7470	372626	EPA 7470	372669
40218604010	GMMW-7	EPA 7470	372626	EPA 7470	372669
40218604011	FVMW-20	EPA 7470	372626	EPA 7470	372669

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16001 AMCAST
Pace Project No.: 40218604

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40218604012	AMS-MW1	EPA 7470	372626	EPA 7470	372669
40218604001	FVMW-26	EPA 7470	372628	EPA 7470	372671
40218604002	FVMW-27	EPA 7470	372628	EPA 7470	372671
40218604003	AMN-MW1	EPA 7470	372628	EPA 7470	372671
40218604004	GMMW-1	EPA 7470	372628	EPA 7470	372671
40218604005	GMMW-2	EPA 7470	372628	EPA 7470	372671
40218604006	GMMW-3	EPA 7470	372628	EPA 7470	372671
40218604007	GMMW-4	EPA 7470	372628	EPA 7470	372671
40218604008	GMMW-5	EPA 7470	372628	EPA 7470	372671
40218604009	GMMW-6	EPA 7470	372628	EPA 7470	372671
40218604010	GMMW-7	EPA 7470	372628	EPA 7470	372671
40218604011	FVMW-20	EPA 7470	372628	EPA 7470	372671
40218604012	AMS-MW1	EPA 7470	372628	EPA 7470	372671
40218604001	FVMW-26	EPA 3510	371876	EPA 8270	371936
40218604002	FVMW-27	EPA 3510	371876	EPA 8270	371936
40218604003	AMN-MW1	EPA 3510	371876	EPA 8270	371936
40218604004	GMMW-1	EPA 3510	371876	EPA 8270	371936
40218604005	GMMW-2	EPA 3510	371876	EPA 8270	371936
40218604006	GMMW-3	EPA 3510	371876	EPA 8270	371936
40218604007	GMMW-4	EPA 3510	371876	EPA 8270	371936
40218604008	GMMW-5	EPA 3510	371876	EPA 8270	371936
40218604009	GMMW-6	EPA 3510	371876	EPA 8270	371936
40218604010	GMMW-7	EPA 3510	371876	EPA 8270	371936
40218604011	FVMW-20	EPA 3510	371876	EPA 8270	371936
40218604012	AMS-MW1	EPA 3510	371876	EPA 8270	371936
40218604001	FVMW-26	EPA 8260	371900		
40218604002	FVMW-27	EPA 8260	371900		
40218604003	AMN-MW1	EPA 8260	371900		
40218604004	GMMW-1	EPA 8260	371900		
40218604005	GMMW-2	EPA 8260	371900		
40218604006	GMMW-3	EPA 8260	371900		
40218604007	GMMW-4	EPA 8260	371900		
40218604008	GMMW-5	EPA 8260	371900		
40218604009	GMMW-6	EPA 8260	371900		
40218604010	GMMW-7	EPA 8260	371900		
40218604011	FVMW-20	EPA 8260	371900		
40218604012	AMS-MW1	EPA 8260	371900		
40218604001	FVMW-26	SM 2540D	371794		
40218604002	FVMW-27	SM 2540D	371794		
40218604003	AMN-MW1	SM 2540D	371794		
40218604004	GMMW-1	SM 2540D	371794		
40218604005	GMMW-2	SM 2540D	371794		
40218604006	GMMW-3	SM 2540D	371794		
40218604007	GMMW-4	SM 2540D	371794		
40218604008	GMMW-5	SM 2540D	371794		
40218604009	GMMW-6	SM 2540D	371794		
40218604010	GMMW-7	SM 2540D	371794		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: J16001 AMCAST
Pace Project No.: 40218604

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40218604011	FVMW-20	SM 2540D	371794		
40218604012	AMS-MW1	SM 2540D	371794		

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(Please Print Clearly)

Company Name: Drake Consulting Group
Branch/Location: Thiensville, WI
Project Contact: Chelsea Corson
Phone: 262-241-0005
Project Number: J16001
Project Name: Amcast
Project State: WI
Sampled By (Print): Tim Giuliani
Sampled By (Sign): *Tim Giuliani*



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

COC No. *40218604*

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	N	N	N	N	N
Pick Letter	A	B	A	A	D	A
Analyses Requested	PCB	VOC	TSS	SVOC 8270	TOTAL RCRA METALS	DISS. RCRA METALS

Quote #: J16001
Mail To Contact: Carly Corson
Mail To Company: Drake Consulting Group
Mail To Address: 118 Green Bay Road, Thiensville WI 53092
Invoice To Contact: Carly Corson
Invoice To Company: Drake Consulting Group
Invoice To Address: 118 Green Bay Road, Thiensville WI 53092
Invoice To Phone: 262-241-0005

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	PCB	VOC	TSS	SVOC 8270	TOTAL RCRA METALS	DISS. RCRA METALS
		DATE	TIME							
<i>001</i>	FVMW-26	<i>11/16</i>	<i>12:30</i>	GW	X	X	X	X	X	X
<i>002</i>	FVMW-27		<i>13:00</i>	GW						
<i>003</i>	AMN-MW1		<i>13:30</i>	GW						
<i>004</i>	GMMW-1		<i>11:55</i>	GW						
<i>005</i>	GMMW-2		<i>11:30</i>	GW						
<i>006</i>	GMMW-3		<i>10:05</i>	GW						
<i>007</i>	GMMW-4		<i>10:15</i>	GW						
<i>008</i>	GMMW-5		<i>10:10</i>	GW						
<i>009</i>	GMMW-6		<i>10:50</i>	GW						
<i>010</i>	GMMW-7		<i>11:10</i>	GW						
<i>011</i>	FVMW-20		<i>9:40</i>	GW						
<i>012</i>	AMS-MW1		<i>10:30</i>	GW						
	TRIP BLK			GW						

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <i>AS</i>	Date/Time: <i>11/17/20 1000</i>	Received By: <i>Mary Fannin</i>	Date/Time: <i>11/17/20 10:00</i>
Relinquished By: <i>Mary Fannin</i>	Date/Time: <i>11/17/20 1215</i>	Received By: _____	Date/Time: _____
Relinquished By: <i>CS Legistics</i>	Date/Time: <i>11-18-20 1105</i>	Received By: <i>Mary Fannin</i>	Date/Time: <i>11-18-20 1105</i>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. *40218604*

Receipt Temp = *ROZ* °C

Sample Receipt pH Adjusted

Cooler Custody Seal Present / Not Present (Intact) / Not Intact