

From: Kroeninger, Krista L <Krista.Kroeninger@terracon.com>
Sent: Friday, October 29, 2021 10:45 AM
To: Saliars, Gwen N - DNR
Cc: Hodgson, Scott A.; Buc, Edmund A
Subject: Mauthe 2-year Groundwater Monitoring Results
Attachments: 2year_Wells_September_2021.pdf

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Hey Gwen,

The September 22, 2021, 2-year groundwater monitoring event results are attached. Please let us know if you have any questions or concerns.

Thank You,

Krista Kroeninger
Staff Geologist | Milwaukee
Terracon
9856 South 57th Street | Franklin, WI 53132
P 414-423-0255 | F 414-423-0566 | D 414-209-7651
krista.kroeninger@terracon.com | www.terracon.com

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September 30, 2021

Scott Hodgson
Terracon, Inc. - Franklin
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Dear Scott Hodgson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Green Bay

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

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: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40233801001	MW-101	Water	09/22/21 11:55	09/23/21 08:20
40233801002	MW-102	Water	09/22/21 14:10	09/23/21 08:20
40233801003	MW-103	Water	09/22/21 13:25	09/23/21 08:20
40233801004	MW-104	Water	09/22/21 12:45	09/23/21 08:20
40233801005	MW-107	Water	09/22/21 13:15	09/23/21 08:20
40233801006	MW-109	Water	09/22/21 12:10	09/23/21 08:20
40233801007	MW-110	Water	09/22/21 15:40	09/23/21 08:20
40233801008	MW-111	Water	09/22/21 14:30	09/23/21 08:20
40233801009	MW-112	Water	09/22/21 15:00	09/23/21 08:20
40233801010	MW-113	Water	09/22/21 15:45	09/23/21 08:20
40233801011	BD-1	Water	09/22/21 00:00	09/23/21 08:20
40233801012	TRIP BLANK	Water	09/22/21 00:00	09/23/21 08:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40233801001	MW-101	EPA 6010D	TXW	1	PASI-G
40233801002	MW-102	EPA 6010D	TXW	1	PASI-G
40233801003	MW-103	EPA 6010D	TXW	1	PASI-G
40233801004	MW-104	EPA 6010D	TXW	1	PASI-G
40233801005	MW-107	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
40233801006	MW-109	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
40233801007	MW-110	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
40233801008	MW-111	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
40233801009	MW-112	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
40233801010	MW-113	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
40233801011	BD-1	EPA 6010D	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 335.4	DAW	1	PASI-G
40233801012	TRIP BLANK	EPA 8260	LAP	64	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40233801002	MW-102					
EPA 6010D	Chromium, Dissolved	14.0	ug/L	10.0	09/24/21 20:21	
40233801003	MW-103					
EPA 6010D	Chromium, Dissolved	19.2	ug/L	10.0	09/24/21 20:26	
40233801004	MW-104					
EPA 6010D	Chromium, Dissolved	16.6	ug/L	10.0	09/24/21 20:28	
40233801005	MW-107					
EPA 6010D	Chromium, Dissolved	1400	ug/L	10.0	09/24/21 20:31	
EPA 8260	1,1-Dichloroethane	4.6	ug/L	2.5	09/25/21 02:48	
EPA 8260	1,1-Dichloroethene	6.2	ug/L	2.5	09/25/21 02:48	
EPA 8260	1,1,1-Trichloroethane	75.7	ug/L	2.5	09/25/21 02:48	
EPA 8260	Trichloroethene	251	ug/L	2.5	09/25/21 02:48	
40233801006	MW-109					
EPA 6010D	Chromium, Dissolved	225	ug/L	10.0	09/24/21 20:38	
EPA 8260	1,1-Dichloroethane	0.87J	ug/L	1.0	09/24/21 22:13	
EPA 8260	1,1,1-Trichloroethane	11.5	ug/L	1.0	09/24/21 22:13	
EPA 8260	Trichloroethene	21.2	ug/L	1.0	09/24/21 22:13	
40233801007	MW-110					
EPA 6010D	Chromium, Dissolved	171	ug/L	10.0	09/24/21 20:40	
EPA 8260	1,1-Dichloroethane	8.9	ug/L	1.0	09/24/21 22:32	
EPA 8260	1,1-Dichloroethene	5.7	ug/L	1.0	09/24/21 22:32	
EPA 8260	cis-1,2-Dichloroethene	3.0	ug/L	1.0	09/24/21 22:32	
EPA 8260	1,1,1-Trichloroethane	29.2	ug/L	1.0	09/24/21 22:32	
EPA 8260	Trichloroethene	14.8	ug/L	1.0	09/24/21 22:32	
40233801008	MW-111					
EPA 6010D	Chromium, Dissolved	265	ug/L	10.0	09/24/21 20:42	
EPA 8260	1,1-Dichloroethane	0.62J	ug/L	1.0	09/24/21 22:52	
EPA 8260	1,1-Dichloroethene	0.68J	ug/L	1.0	09/24/21 22:52	
EPA 8260	1,1,1-Trichloroethane	5.4	ug/L	1.0	09/24/21 22:52	
EPA 8260	Trichloroethene	24.9	ug/L	1.0	09/24/21 22:52	
40233801009	MW-112					
EPA 6010D	Chromium, Dissolved	153	ug/L	10.0	09/24/21 20:45	
EPA 8260	1,1-Dichloroethane	0.39J	ug/L	1.0	09/24/21 23:12	
EPA 8260	cis-1,2-Dichloroethene	21.0	ug/L	1.0	09/24/21 23:12	
EPA 8260	Trichloroethene	29.7	ug/L	1.0	09/24/21 23:12	
40233801010	MW-113					
EPA 6010D	Chromium, Dissolved	4450	ug/L	20.0	09/28/21 18:04	
EPA 8260	1,1-Dichloroethane	26.8	ug/L	1.0	09/25/21 02:08	
EPA 8260	1,1-Dichloroethene	38.6	ug/L	1.0	09/25/21 02:08	
EPA 8260	cis-1,2-Dichloroethene	6.3	ug/L	1.0	09/25/21 02:08	
EPA 8260	trans-1,2-Dichloroethene	1.3	ug/L	1.0	09/25/21 02:08	
EPA 8260	1,1,1-Trichloroethane	150	ug/L	1.0	09/25/21 02:08	
EPA 8260	1,1,2-Trichloroethane	0.47J	ug/L	5.0	09/25/21 02:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40233801010	MW-113					
EPA 8260	Trichloroethene	48.9	ug/L	1.0	09/25/21 02:08	
40233801011	BD-1					
EPA 6010D	Chromium, Dissolved	268	ug/L	10.0	09/24/21 20:50	
EPA 8260	1,1-Dichloroethane	0.64J	ug/L	1.0	09/27/21 07:59	
EPA 8260	1,1-Dichloroethene	0.77J	ug/L	1.0	09/27/21 07:59	
EPA 8260	1,1,1-Trichloroethane	6.9	ug/L	1.0	09/27/21 07:59	
EPA 8260	Trichloroethene	29.6	ug/L	1.0	09/27/21 07:59	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Method: EPA 6010D

Description: 6010D MET ICP, Dissolved

Client: Terracon, Inc. - Franklin

Date: September 30, 2021

General Information:

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

Hold Time:

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

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: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Method: EPA 8260

Description: 8260 MSV

Client: Terracon, Inc. - Franklin

Date: September 30, 2021

General Information:

8 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: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Method: EPA 335.4

Description: 335.4 Cyanide, Total

Client: Terracon, Inc. - Franklin

Date: September 30, 2021

General Information:

4 samples were analyzed for EPA 335.4 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 335.4 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: 396719

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40233746002,40233874002

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

- MS (Lab ID: 2289482)
- Cyanide

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Sample: MW-101 Lab ID: 40233801001 Collected: 09/22/21 11:55 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Chromium, Dissolved	<2.5	ug/L	10.0	2.5	1		09/24/21 20:11	7440-47-3	
Sample: MW-102 Lab ID: 40233801002 Collected: 09/22/21 14:10 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Chromium, Dissolved	14.0	ug/L	10.0	2.5	1		09/24/21 20:21	7440-47-3	
Sample: MW-103 Lab ID: 40233801003 Collected: 09/22/21 13:25 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Chromium, Dissolved	19.2	ug/L	10.0	2.5	1		09/24/21 20:26	7440-47-3	
Sample: MW-104 Lab ID: 40233801004 Collected: 09/22/21 12:45 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Chromium, Dissolved	16.6	ug/L	10.0	2.5	1		09/24/21 20:28	7440-47-3	
Sample: MW-107 Lab ID: 40233801005 Collected: 09/22/21 13:15 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D Pace Analytical Services - Green Bay									
Chromium, Dissolved	1400	ug/L	10.0	2.5	1		09/24/21 20:31	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
Benzene	<0.74	ug/L	2.5	0.74	2.5		09/25/21 02:48	71-43-2	
Bromobenzene	<0.90	ug/L	2.5	0.90	2.5		09/25/21 02:48	108-86-1	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-107 **Lab ID: 40233801005** Collected: 09/22/21 13:15 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Bromochloromethane	<0.89	ug/L	12.5	0.89	2.5		09/25/21 02:48	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.5	1.0	2.5		09/25/21 02:48	75-27-4	
Bromoform	<9.5	ug/L	12.5	9.5	2.5		09/25/21 02:48	75-25-2	
Bromomethane	<3.0	ug/L	12.5	3.0	2.5		09/25/21 02:48	74-83-9	
n-Butylbenzene	<2.1	ug/L	2.5	2.1	2.5		09/25/21 02:48	104-51-8	
sec-Butylbenzene	<1.1	ug/L	2.5	1.1	2.5		09/25/21 02:48	135-98-8	
tert-Butylbenzene	<1.5	ug/L	2.5	1.5	2.5		09/25/21 02:48	98-06-6	
Carbon tetrachloride	<0.92	ug/L	2.5	0.92	2.5		09/25/21 02:48	56-23-5	
Chlorobenzene	<2.1	ug/L	2.5	2.1	2.5		09/25/21 02:48	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		09/25/21 02:48	75-00-3	
Chloroform	<3.0	ug/L	12.5	3.0	2.5		09/25/21 02:48	67-66-3	
Chloromethane	<4.1	ug/L	12.5	4.1	2.5		09/25/21 02:48	74-87-3	
2-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		09/25/21 02:48	95-49-8	
4-Chlorotoluene	<2.2	ug/L	12.5	2.2	2.5		09/25/21 02:48	106-43-4	
1,2-Dibromo-3-chloropropane	<5.9	ug/L	12.5	5.9	2.5		09/25/21 02:48	96-12-8	
Dibromochloromethane	<6.6	ug/L	12.5	6.6	2.5		09/25/21 02:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.77	ug/L	2.5	0.77	2.5		09/25/21 02:48	106-93-4	
Dibromomethane	<2.5	ug/L	12.5	2.5	2.5		09/25/21 02:48	74-95-3	
1,2-Dichlorobenzene	<0.81	ug/L	2.5	0.81	2.5		09/25/21 02:48	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/L	2.5	0.88	2.5		09/25/21 02:48	541-73-1	
1,4-Dichlorobenzene	<2.2	ug/L	2.5	2.2	2.5		09/25/21 02:48	106-46-7	
Dichlorodifluoromethane	<1.1	ug/L	12.5	1.1	2.5		09/25/21 02:48	75-71-8	
1,1-Dichloroethane	4.6	ug/L	2.5	0.74	2.5		09/25/21 02:48	75-34-3	
1,2-Dichloroethane	<0.73	ug/L	2.5	0.73	2.5		09/25/21 02:48	107-06-2	
1,1-Dichloroethene	6.2	ug/L	2.5	1.5	2.5		09/25/21 02:48	75-35-4	
cis-1,2-Dichloroethene	<1.2	ug/L	2.5	1.2	2.5		09/25/21 02:48	156-59-2	
trans-1,2-Dichloroethene	<1.3	ug/L	2.5	1.3	2.5		09/25/21 02:48	156-60-5	
1,2-Dichloropropane	<1.1	ug/L	2.5	1.1	2.5		09/25/21 02:48	78-87-5	
1,3-Dichloropropane	<0.76	ug/L	2.5	0.76	2.5		09/25/21 02:48	142-28-9	
2,2-Dichloropropane	<10.4	ug/L	12.5	10.4	2.5		09/25/21 02:48	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	2.5	1.0	2.5		09/25/21 02:48	563-58-6	
cis-1,3-Dichloropropene	<0.90	ug/L	2.5	0.90	2.5		09/25/21 02:48	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/L	12.5	8.7	2.5		09/25/21 02:48	10061-02-6	
Diisopropyl ether	<2.8	ug/L	12.5	2.8	2.5		09/25/21 02:48	108-20-3	
Ethylbenzene	<0.81	ug/L	2.5	0.81	2.5		09/25/21 02:48	100-41-4	
Hexachloro-1,3-butadiene	<6.8	ug/L	12.5	6.8	2.5		09/25/21 02:48	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/L	12.5	2.5	2.5		09/25/21 02:48	98-82-8	
p-Isopropyltoluene	<2.6	ug/L	12.5	2.6	2.5		09/25/21 02:48	99-87-6	
Methylene Chloride	<0.80	ug/L	12.5	0.80	2.5		09/25/21 02:48	75-09-2	
Methyl-tert-butyl ether	<2.8	ug/L	12.5	2.8	2.5		09/25/21 02:48	1634-04-4	
Naphthalene	<2.8	ug/L	12.5	2.8	2.5		09/25/21 02:48	91-20-3	
n-Propylbenzene	<0.86	ug/L	2.5	0.86	2.5		09/25/21 02:48	103-65-1	
Styrene	<0.89	ug/L	2.5	0.89	2.5		09/25/21 02:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.89	ug/L	2.5	0.89	2.5		09/25/21 02:48	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.94	ug/L	2.5	0.94	2.5		09/25/21 02:48	79-34-5	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-107 **Lab ID: 40233801005** Collected: 09/22/21 13:15 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<1.0	ug/L	2.5	1.0	2.5		09/25/21 02:48	127-18-4	
Toluene	<0.72	ug/L	2.5	0.72	2.5		09/25/21 02:48	108-88-3	
1,2,3-Trichlorobenzene	<2.5	ug/L	12.5	2.5	2.5		09/25/21 02:48	87-61-6	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		09/25/21 02:48	120-82-1	
1,1,1-Trichloroethane	75.7	ug/L	2.5	0.76	2.5		09/25/21 02:48	71-55-6	
1,1,2-Trichloroethane	<0.86	ug/L	12.5	0.86	2.5		09/25/21 02:48	79-00-5	
Trichloroethene	251	ug/L	2.5	0.80	2.5		09/25/21 02:48	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	2.5	1.0	2.5		09/25/21 02:48	75-69-4	
1,2,3-Trichloropropane	<1.4	ug/L	12.5	1.4	2.5		09/25/21 02:48	96-18-4	
1,2,4-Trimethylbenzene	<1.1	ug/L	2.5	1.1	2.5		09/25/21 02:48	95-63-6	
1,3,5-Trimethylbenzene	<0.89	ug/L	2.5	0.89	2.5		09/25/21 02:48	108-67-8	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		09/25/21 02:48	75-01-4	
m&p-Xylene	<1.8	ug/L	5.0	1.8	2.5		09/25/21 02:48	179601-23-1	
o-Xylene	<0.87	ug/L	2.5	0.87	2.5		09/25/21 02:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		2.5		09/25/21 02:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		2.5		09/25/21 02:48	2199-69-1	
Toluene-d8 (S)	98	%	70-130		2.5		09/25/21 02:48	2037-26-5	

Sample: MW-109 **Lab ID: 40233801006** Collected: 09/22/21 12:10 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	225	ug/L	10.0	2.5	1		09/24/21 20:38	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/24/21 22:13	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/24/21 22:13	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:13	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/24/21 22:13	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/24/21 22:13	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:13	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/24/21 22:13	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/24/21 22:13	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/24/21 22:13	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:13	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/24/21 22:13	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/24/21 22:13	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/24/21 22:13	74-87-3	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-109 **Lab ID: 40233801006** Collected: 09/22/21 12:10 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:13	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:13	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/24/21 22:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/24/21 22:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/24/21 22:13	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/24/21 22:13	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:13	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:13	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/24/21 22:13	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/24/21 22:13	75-71-8	
1,1-Dichloroethane	0.87J	ug/L	1.0	0.30	1		09/24/21 22:13	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/24/21 22:13	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/24/21 22:13	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/24/21 22:13	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/24/21 22:13	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/24/21 22:13	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/24/21 22:13	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/24/21 22:13	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:13	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:13	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/24/21 22:13	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:13	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:13	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/24/21 22:13	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/24/21 22:13	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:13	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/24/21 22:13	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:13	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/24/21 22:13	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:13	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/24/21 22:13	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/24/21 22:13	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:13	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/24/21 22:13	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/24/21 22:13	120-82-1	
1,1,1-Trichloroethane	11.5	ug/L	1.0	0.30	1		09/24/21 22:13	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/24/21 22:13	79-00-5	
Trichloroethene	21.2	ug/L	1.0	0.32	1		09/24/21 22:13	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:13	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/24/21 22:13	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/24/21 22:13	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:13	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/24/21 22:13	75-01-4	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Sample: MW-109 Lab ID: 40233801006 Collected: 09/22/21 12:10 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/24/21 22:13	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/24/21 22:13	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		09/24/21 22:13	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		09/24/21 22:13	2037-26-5	

Sample: MW-110 Lab ID: 40233801007 Collected: 09/22/21 15:40 Received: 09/23/21 08:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	171	ug/L	10.0	2.5	1		09/24/21 20:40	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/24/21 22:32	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/24/21 22:32	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:32	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/24/21 22:32	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/24/21 22:32	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:32	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/24/21 22:32	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/24/21 22:32	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/24/21 22:32	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:32	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/24/21 22:32	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/24/21 22:32	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/24/21 22:32	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:32	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:32	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/24/21 22:32	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/24/21 22:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/24/21 22:32	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/24/21 22:32	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:32	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:32	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/24/21 22:32	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/24/21 22:32	75-71-8	
1,1-Dichloroethane	8.9	ug/L	1.0	0.30	1		09/24/21 22:32	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/24/21 22:32	107-06-2	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-110 **Lab ID: 40233801007** Collected: 09/22/21 15:40 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1-Dichloroethene	5.7	ug/L	1.0	0.58	1		09/24/21 22:32	75-35-4	
cis-1,2-Dichloroethene	3.0	ug/L	1.0	0.47	1		09/24/21 22:32	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/24/21 22:32	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/24/21 22:32	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/24/21 22:32	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/24/21 22:32	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:32	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:32	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/24/21 22:32	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:32	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:32	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/24/21 22:32	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/24/21 22:32	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:32	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/24/21 22:32	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:32	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/24/21 22:32	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:32	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/24/21 22:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/24/21 22:32	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/24/21 22:32	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:32	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/24/21 22:32	120-82-1	
1,1,1-Trichloroethane	29.2	ug/L	1.0	0.30	1		09/24/21 22:32	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/24/21 22:32	79-00-5	
Trichloroethene	14.8	ug/L	1.0	0.32	1		09/24/21 22:32	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:32	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/24/21 22:32	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/24/21 22:32	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:32	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/24/21 22:32	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/24/21 22:32	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/24/21 22:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		09/24/21 22:32	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		09/24/21 22:32	2037-26-5	
335.4 Cyanide, Total									
Analytical Method: EPA 335.4 Preparation Method: EPA 335.4									
Pace Analytical Services - Green Bay									
Cyanide	<0.0069	mg/L	0.023	0.0069	1	09/27/21 10:10	09/27/21 12:48	57-12-5	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-111 **Lab ID: 40233801008** Collected: 09/22/21 14:30 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	265	ug/L	10.0	2.5	1		09/24/21 20:42	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/24/21 22:52	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/24/21 22:52	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/24/21 22:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/24/21 22:52	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:52	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/24/21 22:52	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/24/21 22:52	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/24/21 22:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 22:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/24/21 22:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/24/21 22:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/24/21 22:52	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:52	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 22:52	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/24/21 22:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/24/21 22:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/24/21 22:52	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/24/21 22:52	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:52	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:52	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/24/21 22:52	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/24/21 22:52	75-71-8	
1,1-Dichloroethane	0.62J	ug/L	1.0	0.30	1		09/24/21 22:52	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/24/21 22:52	107-06-2	
1,1-Dichloroethene	0.68J	ug/L	1.0	0.58	1		09/24/21 22:52	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/24/21 22:52	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/24/21 22:52	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/24/21 22:52	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/24/21 22:52	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/24/21 22:52	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:52	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:52	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/24/21 22:52	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:52	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 22:52	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/24/21 22:52	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/24/21 22:52	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:52	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/24/21 22:52	75-09-2	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Sample: MW-111 **Lab ID: 40233801008** Collected: 09/22/21 14:30 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 22:52	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/24/21 22:52	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:52	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/24/21 22:52	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/24/21 22:52	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/24/21 22:52	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/24/21 22:52	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/24/21 22:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/24/21 22:52	120-82-1	
1,1,1-Trichloroethane	5.4	ug/L	1.0	0.30	1		09/24/21 22:52	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/24/21 22:52	79-00-5	
Trichloroethene	24.9	ug/L	1.0	0.32	1		09/24/21 22:52	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 22:52	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/24/21 22:52	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/24/21 22:52	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 22:52	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/24/21 22:52	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/24/21 22:52	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/24/21 22:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/24/21 22:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		09/24/21 22:52	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		09/24/21 22:52	2037-26-5	

335.4 Cyanide, Total Analytical Method: EPA 335.4 Preparation Method: EPA 335.4
Pace Analytical Services - Green Bay

Cyanide	<0.0069	mg/L	0.023	0.0069	1	09/27/21 10:10	09/27/21 12:49	57-12-5	
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Sample: MW-112 **Lab ID: 40233801009** Collected: 09/22/21 15:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	153	ug/L	10.0	2.5	1		09/24/21 20:45	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/24/21 23:12	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 23:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/24/21 23:12	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 23:12	75-27-4	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-112 **Lab ID: 40233801009** Collected: 09/22/21 15:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Bromoform	<3.8	ug/L	5.0	3.8	1		09/24/21 23:12	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/24/21 23:12	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 23:12	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/24/21 23:12	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/24/21 23:12	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/24/21 23:12	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 23:12	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/24/21 23:12	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/24/21 23:12	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/24/21 23:12	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 23:12	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 23:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/24/21 23:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/24/21 23:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/24/21 23:12	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/24/21 23:12	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 23:12	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 23:12	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/24/21 23:12	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/24/21 23:12	75-71-8	
1,1-Dichloroethane	0.39J	ug/L	1.0	0.30	1		09/24/21 23:12	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/24/21 23:12	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/24/21 23:12	75-35-4	
cis-1,2-Dichloroethene	21.0	ug/L	1.0	0.47	1		09/24/21 23:12	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/24/21 23:12	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/24/21 23:12	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/24/21 23:12	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/24/21 23:12	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/24/21 23:12	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/24/21 23:12	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/24/21 23:12	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 23:12	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 23:12	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/24/21 23:12	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/24/21 23:12	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/24/21 23:12	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/24/21 23:12	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 23:12	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/24/21 23:12	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 23:12	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/24/21 23:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/24/21 23:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/24/21 23:12	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/24/21 23:12	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/24/21 23:12	108-88-3	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-112 **Lab ID: 40233801009** Collected: 09/22/21 15:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/24/21 23:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/24/21 23:12	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/24/21 23:12	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/24/21 23:12	79-00-5	
Trichloroethene	29.7	ug/L	1.0	0.32	1		09/24/21 23:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 23:12	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/24/21 23:12	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/24/21 23:12	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 23:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/24/21 23:12	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/24/21 23:12	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/24/21 23:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/24/21 23:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		09/24/21 23:12	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		09/24/21 23:12	2037-26-5	

335.4 Cyanide, Total Analytical Method: EPA 335.4 Preparation Method: EPA 335.4
Pace Analytical Services - Green Bay

Cyanide	<0.0069	mg/L	0.023	0.0069	1	09/27/21 10:10	09/27/21 12:50	57-12-5	
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Sample: MW-113 **Lab ID: 40233801010** Collected: 09/22/21 15:45 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	4450	ug/L	20.0	5.1	2		09/28/21 18:04	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/25/21 02:08	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/25/21 02:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/25/21 02:08	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/25/21 02:08	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/25/21 02:08	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/25/21 02:08	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/25/21 02:08	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/25/21 02:08	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/25/21 02:08	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/25/21 02:08	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/25/21 02:08	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/25/21 02:08	75-00-3	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: MW-113 **Lab ID: 40233801010** Collected: 09/22/21 15:45 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Chloroform	<1.2	ug/L	5.0	1.2	1		09/25/21 02:08	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/25/21 02:08	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/25/21 02:08	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/25/21 02:08	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/25/21 02:08	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/25/21 02:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/25/21 02:08	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/25/21 02:08	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/25/21 02:08	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/25/21 02:08	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/25/21 02:08	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/25/21 02:08	75-71-8	
1,1-Dichloroethane	26.8	ug/L	1.0	0.30	1		09/25/21 02:08	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/25/21 02:08	107-06-2	
1,1-Dichloroethene	38.6	ug/L	1.0	0.58	1		09/25/21 02:08	75-35-4	
cis-1,2-Dichloroethene	6.3	ug/L	1.0	0.47	1		09/25/21 02:08	156-59-2	
trans-1,2-Dichloroethene	1.3	ug/L	1.0	0.53	1		09/25/21 02:08	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/25/21 02:08	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/25/21 02:08	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/25/21 02:08	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/25/21 02:08	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/25/21 02:08	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/25/21 02:08	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/25/21 02:08	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/25/21 02:08	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/25/21 02:08	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/25/21 02:08	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/25/21 02:08	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/25/21 02:08	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/25/21 02:08	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/25/21 02:08	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/25/21 02:08	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/25/21 02:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/25/21 02:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/25/21 02:08	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/25/21 02:08	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/25/21 02:08	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/25/21 02:08	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/25/21 02:08	120-82-1	
1,1,1-Trichloroethane	150	ug/L	1.0	0.30	1		09/25/21 02:08	71-55-6	
1,1,2-Trichloroethane	0.47J	ug/L	5.0	0.34	1		09/25/21 02:08	79-00-5	
Trichloroethene	48.9	ug/L	1.0	0.32	1		09/25/21 02:08	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/25/21 02:08	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/25/21 02:08	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/25/21 02:08	95-63-6	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Sample: MW-113 **Lab ID: 40233801010** Collected: 09/22/21 15:45 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/25/21 02:08	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/25/21 02:08	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/25/21 02:08	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/25/21 02:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/25/21 02:08	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		09/25/21 02:08	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		09/25/21 02:08	2037-26-5	

Sample: BD-1 **Lab ID: 40233801011** Collected: 09/22/21 00:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, Dissolved									
Analytical Method: EPA 6010D									
Pace Analytical Services - Green Bay									
Chromium, Dissolved	268	ug/L	10.0	2.5	1		09/24/21 20:50	7440-47-3	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/27/21 07:59	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/27/21 07:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/27/21 07:59	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/27/21 07:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/27/21 07:59	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/27/21 07:59	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/27/21 07:59	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/27/21 07:59	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/27/21 07:59	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/27/21 07:59	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/27/21 07:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/27/21 07:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/27/21 07:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/27/21 07:59	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/27/21 07:59	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/27/21 07:59	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/27/21 07:59	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/27/21 07:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/27/21 07:59	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/27/21 07:59	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/27/21 07:59	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/27/21 07:59	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/27/21 07:59	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/27/21 07:59	75-71-8	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Sample: BD-1 **Lab ID: 40233801011** Collected: 09/22/21 00:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1-Dichloroethane	0.64J	ug/L	1.0	0.30	1		09/27/21 07:59	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/27/21 07:59	107-06-2	
1,1-Dichloroethene	0.77J	ug/L	1.0	0.58	1		09/27/21 07:59	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/27/21 07:59	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/27/21 07:59	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/27/21 07:59	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/27/21 07:59	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/27/21 07:59	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/27/21 07:59	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/27/21 07:59	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/27/21 07:59	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/27/21 07:59	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/27/21 07:59	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/27/21 07:59	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/27/21 07:59	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/27/21 07:59	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/27/21 07:59	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/27/21 07:59	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/27/21 07:59	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/27/21 07:59	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/27/21 07:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/27/21 07:59	630-20-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/27/21 07:59	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/27/21 07:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/27/21 07:59	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/27/21 07:59	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/27/21 07:59	120-82-1	
1,1,1-Trichloroethane	6.9	ug/L	1.0	0.30	1		09/27/21 07:59	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/27/21 07:59	79-00-5	
Trichloroethene	29.6	ug/L	1.0	0.32	1		09/27/21 07:59	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/27/21 07:59	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/27/21 07:59	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/27/21 07:59	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/27/21 07:59	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/27/21 07:59	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/27/21 07:59	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/27/21 07:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/27/21 07:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		09/27/21 07:59	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		09/27/21 07:59	2037-26-5	

335.4 Cyanide, Total

Analytical Method: EPA 335.4 Preparation Method: EPA 335.4
Pace Analytical Services - Green Bay

Cyanide	<0.0069	mg/L	0.023	0.0069	1	09/27/21 10:10	09/27/21 12:50	57-12-5	
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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: TRIP BLANK **Lab ID: 40233801012** Collected: 09/22/21 00:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		09/24/21 21:14	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 21:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/24/21 21:14	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 21:14	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		09/24/21 21:14	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		09/24/21 21:14	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 21:14	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		09/24/21 21:14	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		09/24/21 21:14	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		09/24/21 21:14	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		09/24/21 21:14	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		09/24/21 21:14	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		09/24/21 21:14	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		09/24/21 21:14	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 21:14	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		09/24/21 21:14	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		09/24/21 21:14	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		09/24/21 21:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		09/24/21 21:14	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		09/24/21 21:14	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 21:14	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 21:14	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		09/24/21 21:14	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		09/24/21 21:14	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		09/24/21 21:14	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		09/24/21 21:14	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		09/24/21 21:14	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		09/24/21 21:14	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		09/24/21 21:14	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		09/24/21 21:14	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		09/24/21 21:14	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		09/24/21 21:14	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		09/24/21 21:14	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		09/24/21 21:14	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		09/24/21 21:14	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 21:14	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		09/24/21 21:14	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		09/24/21 21:14	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		09/24/21 21:14	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		09/24/21 21:14	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		09/24/21 21:14	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		09/24/21 21:14	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		09/24/21 21:14	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		09/24/21 21:14	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		09/24/21 21:14	100-42-5	

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ANALYTICAL RESULTS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

Sample: TRIP BLANK **Lab ID: 40233801012** Collected: 09/22/21 00:00 Received: 09/23/21 08:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		09/24/21 21:14	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		09/24/21 21:14	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		09/24/21 21:14	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		09/24/21 21:14	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		09/24/21 21:14	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/24/21 21:14	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		09/24/21 21:14	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		09/24/21 21:14	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		09/24/21 21:14	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		09/24/21 21:14	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		09/24/21 21:14	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		09/24/21 21:14	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		09/24/21 21:14	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/24/21 21:14	75-01-4	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		09/24/21 21:14	179601-23-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		09/24/21 21:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/24/21 21:14	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		09/24/21 21:14	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		09/24/21 21:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

METHOD BLANK: 2288469

Matrix: Water

Associated Lab Samples: 40233801005, 40233801006, 40233801007, 40233801008, 40233801009, 40233801010, 40233801011, 40233801012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	09/24/21 17:38	
Ethylbenzene	ug/L	<0.33	1.0	09/24/21 17:38	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	09/24/21 17:38	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	09/24/21 17:38	
m&p-Xylene	ug/L	<0.70	2.0	09/24/21 17:38	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	09/24/21 17:38	
Methylene Chloride	ug/L	<0.32	5.0	09/24/21 17:38	
n-Butylbenzene	ug/L	<0.86	1.0	09/24/21 17:38	
n-Propylbenzene	ug/L	<0.35	1.0	09/24/21 17:38	
Naphthalene	ug/L	<1.1	5.0	09/24/21 17:38	
o-Xylene	ug/L	<0.35	1.0	09/24/21 17:38	
p-Isopropyltoluene	ug/L	<1.0	5.0	09/24/21 17:38	
sec-Butylbenzene	ug/L	<0.42	1.0	09/24/21 17:38	
Styrene	ug/L	<0.36	1.0	09/24/21 17:38	
tert-Butylbenzene	ug/L	<0.59	1.0	09/24/21 17:38	
Tetrachloroethene	ug/L	<0.41	1.0	09/24/21 17:38	
Toluene	ug/L	<0.29	1.0	09/24/21 17:38	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	09/24/21 17:38	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	09/24/21 17:38	
Trichloroethene	ug/L	<0.32	1.0	09/24/21 17:38	
Trichlorofluoromethane	ug/L	<0.42	1.0	09/24/21 17:38	
Vinyl chloride	ug/L	<0.17	1.0	09/24/21 17:38	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	09/24/21 17:38	
4-Bromofluorobenzene (S)	%	100	70-130	09/24/21 17:38	
Toluene-d8 (S)	%	100	70-130	09/24/21 17:38	

LABORATORY CONTROL SAMPLE: 2288470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.5	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.0	108	66-130	
1,1,2-Trichloroethane	ug/L	50	56.3	113	70-130	
1,1-Dichloroethane	ug/L	50	60.3	121	68-132	
1,1-Dichloroethene	ug/L	50	58.1	116	85-126	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	96	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	70-130	
1,2-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dichloroethane	ug/L	50	57.5	115	70-130	
1,2-Dichloropropane	ug/L	50	57.2	114	78-125	
1,3-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
Benzene	ug/L	50	58.2	116	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

LABORATORY CONTROL SAMPLE: 2288470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	54.8	110	70-130	
Bromoform	ug/L	50	54.6	109	65-130	
Bromomethane	ug/L	50	42.8	86	44-128	
Carbon tetrachloride	ug/L	50	61.0	122	70-130	
Chlorobenzene	ug/L	50	55.4	111	70-130	
Chloroethane	ug/L	50	58.7	117	73-137	
Chloroform	ug/L	50	58.6	117	80-122	
Chloromethane	ug/L	50	51.4	103	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.0	110	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.9	108	70-130	
Dibromochloromethane	ug/L	50	54.7	109	70-130	
Dichlorodifluoromethane	ug/L	50	48.3	97	22-151	
Ethylbenzene	ug/L	50	59.0	118	80-123	
Isopropylbenzene (Cumene)	ug/L	50	61.2	122	70-130	
m&p-Xylene	ug/L	100	116	116	70-130	
Methyl-tert-butyl ether	ug/L	50	54.0	108	66-130	
Methylene Chloride	ug/L	50	56.4	113	70-130	
o-Xylene	ug/L	50	57.5	115	70-130	
Styrene	ug/L	50	60.9	122	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	56.4	113	80-121	
trans-1,2-Dichloroethene	ug/L	50	57.2	114	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	58-125	
Trichloroethene	ug/L	50	56.1	112	70-130	
Trichlorofluoromethane	ug/L	50	58.7	117	84-148	
Vinyl chloride	ug/L	50	58.8	118	63-142	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2289144 2289145

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40233777002	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	56.4	58.6	113	117	70-130	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	50.4	53.5	101	107	66-130	6	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	55.2	56.7	110	113	70-130	3	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	57.2	59.3	114	119	68-132	4	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	54.9	56.2	110	112	76-132	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.6	49.4	95	99	70-130	4	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	45.3	48.1	91	96	51-126	6	20		
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	53.5	54.5	107	109	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.33	50	50	52.4	54.4	105	109	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.29	50	50	55.7	56.6	111	113	70-130	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2289144		2289145		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		4023377002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichloropropane	ug/L	<0.45	50	50	54.4	57.1	109	114	77-125	5	20		
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50.6	53.4	101	107	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<0.89	50	50	52.0	54.4	104	109	70-130	4	20		
Benzene	ug/L	<0.30	50	50	54.7	56.9	109	114	70-132	4	20		
Bromodichloromethane	ug/L	<0.42	50	50	52.7	54.2	105	108	70-130	3	20		
Bromoform	ug/L	<3.8	50	50	53.0	53.9	106	108	65-130	2	20		
Bromomethane	ug/L	<1.2	50	50	43.8	47.5	88	95	44-128	8	21		
Carbon tetrachloride	ug/L	<0.37	50	50	58.3	60.3	117	121	70-132	3	20		
Chlorobenzene	ug/L	<0.86	50	50	55.4	56.9	111	114	70-130	3	20		
Chloroethane	ug/L	<1.4	50	50	56.2	56.7	112	113	70-137	1	20		
Chloroform	ug/L	<1.2	50	50	55.4	57.2	111	114	80-122	3	20		
Chloromethane	ug/L	<1.6	50	50	46.0	47.8	92	96	17-149	4	20		
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	52.6	54.3	105	109	70-130	3	20		
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	52.7	55.2	105	110	70-130	5	20		
Dibromochloromethane	ug/L	<2.6	50	50	53.5	55.1	107	110	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	41.6	43.1	83	86	22-158	4	20		
Ethylbenzene	ug/L	<0.33	50	50	58.5	60.0	117	120	80-123	3	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	59.5	61.6	119	123	70-130	3	20		
m&p-Xylene	ug/L	<0.70	100	100	114	119	114	119	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	52.0	54.4	104	109	66-130	4	20		
Methylene Chloride	ug/L	<0.32	50	50	53.0	55.1	106	110	70-130	4	20		
o-Xylene	ug/L	<0.35	50	50	56.7	58.1	113	116	70-130	2	20		
Styrene	ug/L	<0.36	50	50	59.5	61.6	119	123	70-130	3	20		
Tetrachloroethene	ug/L	<0.41	50	50	51.2	53.3	102	107	70-130	4	20		
Toluene	ug/L	<0.29	50	50	55.1	57.0	110	114	80-121	3	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	53.4	56.3	107	113	70-134	5	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	52.3	53.9	105	108	58-130	3	20		
Trichloroethene	ug/L	<0.32	50	50	55.2	56.3	110	113	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	55.7	58.1	111	116	82-151	4	20		
Vinyl chloride	ug/L	<0.17	50	50	54.4	56.9	109	114	61-143	4	20		
1,2-Dichlorobenzene-d4 (S)	%						99	99	70-130				
4-Bromofluorobenzene (S)	%						98	99	70-130				
Toluene-d8 (S)	%						101	102	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

QC Batch: 396719 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40233801007, 40233801008, 40233801009, 40233801011

METHOD BLANK: 2289478 Matrix: Water
Associated Lab Samples: 40233801007, 40233801008, 40233801009, 40233801011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0069	0.023	09/27/21 12:47	

LABORATORY CONTROL SAMPLE: 2289479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.095	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2289480 2289481

Parameter	Units	40233874002		2289480		2289481		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Cyanide	mg/L	<0.014	0.2	0.2	0.2	0.20	0.20	99	98	90-110	1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2289482 2289483

Parameter	Units	40233746002		2289482		2289483		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result				
Cyanide	mg/L	<0.041	0.6	0.6	0.69	0.65	114	109	90-110	5	20 M0

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QUALIFIERS

Project: 58117057 N.W. MAUTHE SUPERFUND

Pace Project No.: 40233801

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58117057 N.W. MAUTHE SUPERFUND
Pace Project No.: 40233801

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40233801001	MW-101	EPA 6010D	396640		
40233801002	MW-102	EPA 6010D	396640		
40233801003	MW-103	EPA 6010D	396640		
40233801004	MW-104	EPA 6010D	396640		
40233801005	MW-107	EPA 6010D	396640		
40233801006	MW-109	EPA 6010D	396640		
40233801007	MW-110	EPA 6010D	396640		
40233801008	MW-111	EPA 6010D	396640		
40233801009	MW-112	EPA 6010D	396640		
40233801010	MW-113	EPA 6010D	396640		
40233801011	BD-1	EPA 6010D	396640		
40233801005	MW-107	EPA 8260	396612		
40233801006	MW-109	EPA 8260	396612		
40233801007	MW-110	EPA 8260	396612		
40233801008	MW-111	EPA 8260	396612		
40233801009	MW-112	EPA 8260	396612		
40233801010	MW-113	EPA 8260	396612		
40233801011	BD-1	EPA 8260	396612		
40233801012	TRIP BLANK	EPA 8260	396612		
40233801007	MW-110	EPA 335.4	396719	EPA 335.4	396765
40233801008	MW-111	EPA 335.4	396719	EPA 335.4	396765
40233801009	MW-112	EPA 335.4	396719	EPA 335.4	396765
40233801011	BD-1	EPA 335.4	396719	EPA 335.4	396765

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40233809

Addresses		Order By :	Ship To :	Return To:	
Company	Terracon, Inc. - Franklin	Company	Terracon, Inc. - Franklin	Company	Pace Analytical Green Bay
Contact	Johnson, Ryan	Contact	Johnson, Ryan	Contact	Milewsky, Dan
Email	ryan.johnson@terracon.com	Email	ryan.johnson@terracon.com	Email	dan.milewsky@pacelabs.com
Address	9856 South 57th Street	Address	9856 South 57th Street	Address	1241 Bellevue Street
Address 2		Address 2		Address 2	Suite 9
City	Franklin	City	Franklin	City	Green Bay
State	WI Zip 53132	State	WI Zip 53132	State	WI Zip 54302
Phone	414-423-0255	Phone	414-423-0255	Phone	(920)469-2436

Info					
Project Name	Mauthe Waters	Due Date	09/21/2021	Profile	1
Project Manager	Milewsky, Dan	Return Date		Carrier	Most Economical
				Location	
Quote					

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank

Pre-Printed No Sample IDs

Pre-Printed With Sample IDs

Bottles

Boxed Cases

Individually Wrapped

Grouped By Sample ID/Matrix

Return Shipping Labels

No Shipper

With Shipper

Misc

Sampling Instructions

Custody Seal

Temp. Blanks

Coolers

Syringes

Extra Bubble Wrap

Short Hold/Rush Stickers

DI Water

USDA Regulated Soils

COC Options

Number of Blanks

Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
12	WT	Metals - Chromium	250mL plastic w/HNO3	12	0	M-1-106-03BB	
5	WT	Cyanide	250mL plastic NaOH	5	0	M-1-106-04BB	
1	WT	Trip BLANK	2-40mL HCl+DI water	2	0	B-1-139-01VB	
8	WT	VOC WI List 8260	3-40 ml HCl	24	0	B-1-228-01VB	

Hazard Shipping Placard In Place : NA

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :

Prepared By:

Verified By:

Sample

CLIENT USE (Optional):

Date Rec'd:

Received By:

Verified By:



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020
 Author:
 Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Terracon

WO# : 40233801

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



Tracking #: 2319, 092221

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 111 Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 9/23/21 /Initials: WC
 Labeled By Initials: DLI

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.	<u>no phone #</u> <u>WC 9/23/21</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	<u>5 DAY TAT REQUESTED</u> <u>WC 9/23/21</u>
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A		<u>9/23/21 DLI</u>
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>GW</u>			
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>471</u>	<u>9/23/21 DLI</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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