



June 11, 2021

Karl Beaster, PG  
Sr. Environmental Advisor  
Enbridge Energy, Limited Partnership  
11 East Superior Street, Suite 125  
Duluth, MN 55802  
karl.beaster@enbridge.com

**Subject: Monitoring Well Sampling Results – MW-6  
Enbridge Line 13 MP 312, Blackhawk Island Rd Valve Site, Ft. Atkinson, WI  
WDNR BRRTS #02-28-586199**

Dear Mr. Beaster:

WSP USA Inc. (WSP) is pleased to submit the following summary of sampling results for monitoring well MW-6 that was sampled on May 26, 2021. This monitoring well was sampled as a part of Enbridge's ongoing assessment of the Line 13 Milepost (MP) 312 Valve Site located at the intersection of Blackhawk Island Road and Westphal Lane near Fort Atkinson, Wisconsin (Site).

WSP collected a water sample from monitoring well MW-6 on May 26, 2021. The location of MW-6 is shown on Figure 1 (labeled as MW-06-32). The groundwater sample was collected in accordance with WSP's Standard Operating Procedures using low-flow purge and sample methods. The sample was analyzed by Pace Analytical of Green Bay, Wisconsin for volatile organic compounds (VOCs) by EPA Method 8260. Quality Assurance / Quality Control (QA/QC) samples included one duplicate sample (DUP05262021) and one trip blank sample (TRIP BLANK), which were submitted with the monitoring well sample.

Table 1 includes historical laboratory analytical results for the monitoring wells located at the Site. Enclosure A includes the laboratory report for the sample collected from MW-6 and its duplicate sample, and the trip blank. Benzene was detected in the MW-6 sample at a concentration of 4.7 micrograms per liter ( $\mu\text{g/l}$ ) and in its duplicate at a concentration of 4.9  $\mu\text{g/l}$ . Trichloroethene was detected in both the MW-6 sample and its duplicate sample at a concentration of 1.3  $\mu\text{g/l}$ . No other VOCs were detected above the laboratory method detection limit (MDL) in the MW-6 sample or its duplicate sample. No VOCs were detected above the laboratory MDL in the trip blank.

In accordance with Wisconsin Administrative Code, Chapter NR 712, the certification of a hydrogeologist for this sampling results submittal is included in Enclosure B.

WSP USA  
Suite 2800  
211 North Broadway  
St. Louis, MO 63102

Tel.: +1 314 206-4444  
Fax: +1 314 421-1741  
wsp.com



Please do not hesitate to contact me if you have questions:

Kind regards,

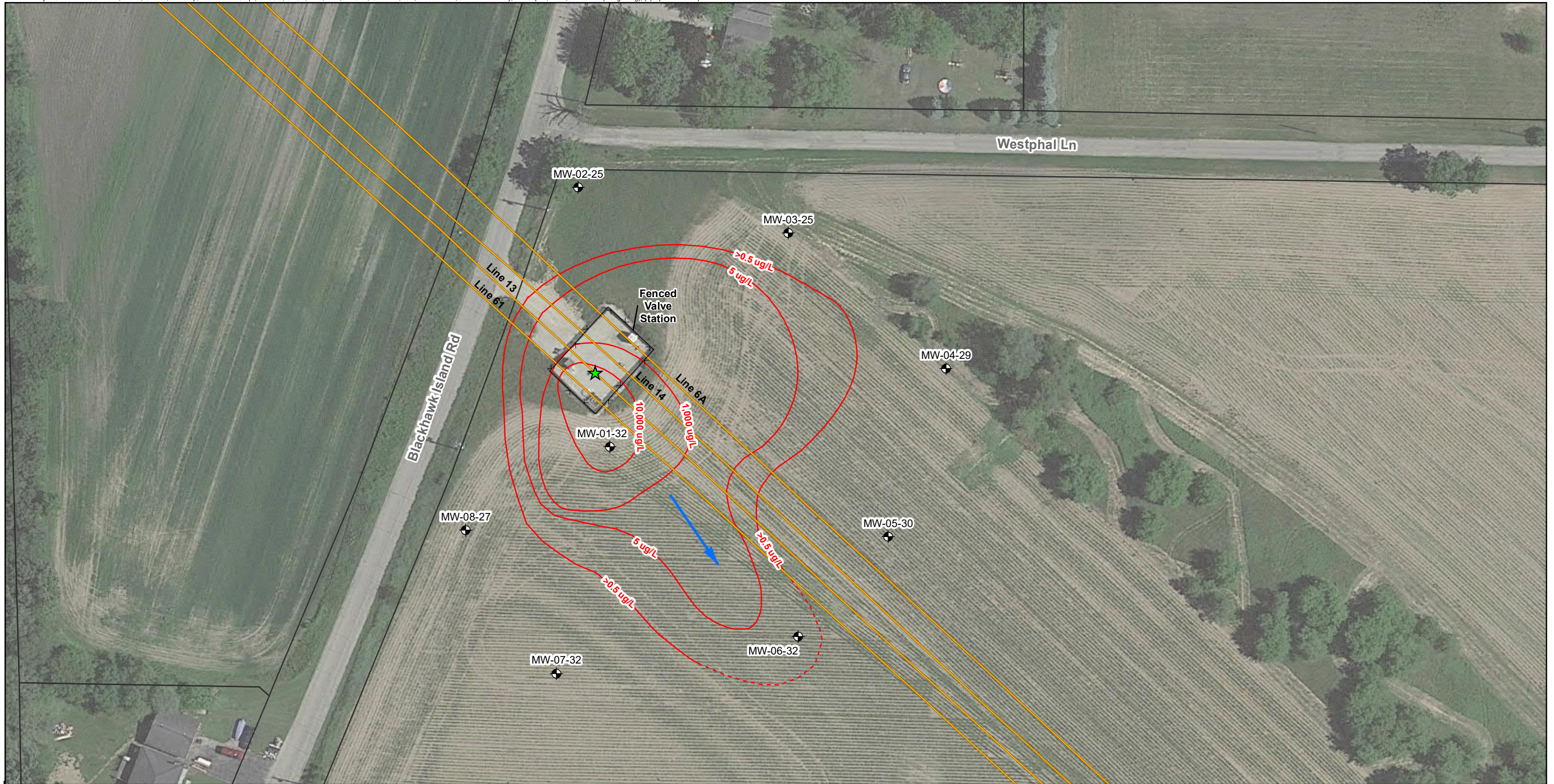
A handwritten signature in black ink that reads "Tim Huff". The signature is written in a cursive style.

Timothy A. Huff  
Senior Lead Geologist

TAH :  
\\10.0.199.15\job\enbridge\ft atkinson\line 13 mp 312\\_work plans and reports\2021-05 mw sampling results to wdnr\2021.06.11\_line13 mp312\_monitoring well sampling results.docx

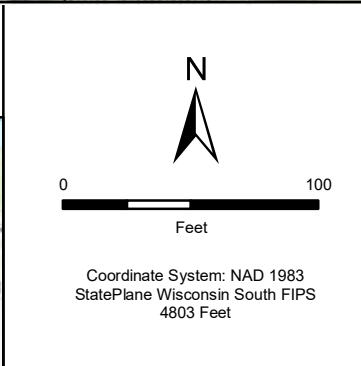
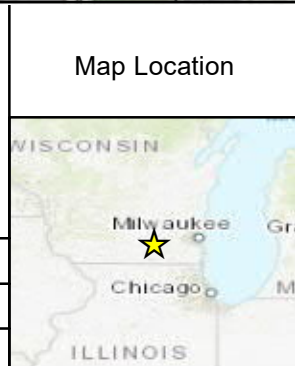
Encl.

FIGURE



**ENBRIDGE**

Drawn: WSP 4/29/2021  
 Approved: WSP 4/29/2021  
 Project #: 31401967.705



- Legend**
- Approximate Release Location
  - Existing Monitoring Well
  - Groundwater Flow Direction
  - Benzene Isoconcentration Contours (ug/l) (Dashed where inferred)
  - Enbridge Pipeline
  - Fenced Valve Site
  - Property Parcels

Note:  
 1. Benzene isoconcentration contours developed from Sept 2020 temporary well sampling results and April 2021 monitoring well sampling results

**FIGURE 1**  
**SITE LAYOUT**  
 LINE 13 MP 312 VALVE SITE  
 FORT ATKINSON, WISCONSIN  
 ENBRIDGE ENERGY  
 LIMITED PARTNERSHIP

TABLE

**Table 1**  
**Historical Monitoring Well Analytical Results for Select Compounds**  
**Line 13 MP312 Valve Site**  
**Fort Atkinson, Wisconsin**

Location	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)
Enforcement Standard (a)		5	700	800	2,000	5
Preventative Action Limit (a)		0.5	140	160	400	0.5
MW-1	10/09/20	<b>23,700</b>	222	<b>7,650</b>	728	<51.0
	01/15/21	<b>24,400</b>	244	<b>10,400</b>	775	<51.0
	04/01/21	<b>17,600</b>	220	<b>9,280</b>	758	<12.8
MW-2	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-3	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-4	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-5	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-6	10/08/20	<0.25	<0.32	<0.27	<0.73	1.0
	01/14/21	0.34 J	<0.32	<0.27	<0.26	1.7
	04/01/21	3.4	<0.32	<0.27	<0.73	0.95 J
	05/26/21	4.7	<0.33	<0.29	<1.05	1.3
MW-7	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26
MW-8	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26

General Notes

Shaded = Regulatory exceedance

**Bold = Enforcement Standard exceedance**

*Italics = Preventative Action Limit exceedance*

Acronyms and Abbreviations

a/ Wisconsin Department of Natural Resources (WDNR) Administrative Code Chapter NR 140.10, Table 1 - Public Health Groundwater Standards. February 2021.

J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation or analyte is a Tentatively Identified Compound (TIC) which does not have established quantitation or detection limits (i.e. all detections are estimated)

ug/L = Micrograms per liter.

## ENCLOSURE A – LABORATORY ANALYTICAL RESULTS

June 01, 2021

Timothy Huff  
WSP USA  
211 North Broadway  
Saint Louis, MO 63102

RE: Project: 31401967.705-06.00 L13 MP 312  
Pace Project No.: 40227567

Dear Timothy Huff:

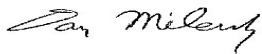
Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted 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

cc: Matt Grady, WSP USA - MADISON  
Brian Kimpel, WSP USA



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

---

### **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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## SAMPLE SUMMARY

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40227567001	MW-6	Water	05/26/21 10:20	05/27/21 08:30
40227567002	DUP05262021	Water	05/26/21 00:00	05/27/21 08:30
40227567003	TRIP BLANK	Water	05/26/21 00:00	05/27/21 08:30

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### SAMPLE ANALYTE COUNT

Project: 31401967.705-06.00 L13 MP 312  
Pace Project No.: 40227567

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40227567001	MW-6	EPA 8260	MDS	68
40227567002	DUP05262021	EPA 8260	MDS	68
40227567003	TRIP BLANK	EPA 8260	MDS	68

PASI-G = Pace Analytical Services - Green Bay

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: MW-6**      **Lab ID: 40227567001**      Collected: 05/26/21 10:20      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/28/21 12:16	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/28/21 12:16	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/28/21 12:16	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:16	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/28/21 12:16	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		05/28/21 12:16	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		05/28/21 12:16	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		05/28/21 12:16	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/28/21 12:16	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 12:16	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/28/21 12:16	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/28/21 12:16	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 12:16	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/28/21 12:16	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/28/21 12:16	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:16	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:16	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:16	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/28/21 12:16	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		05/28/21 12:16	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 12:16	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 12:16	106-43-4	
Benzene	4.7	ug/L	1.0	0.30	1		05/28/21 12:16	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/28/21 12:16	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 12:16	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/28/21 12:16	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/28/21 12:16	74-83-9	M1
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/28/21 12:16	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 12:16	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/28/21 12:16	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/28/21 12:16	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/28/21 12:16	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		05/28/21 12:16	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/28/21 12:16	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/28/21 12:16	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/28/21 12:16	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 12:16	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 12:16	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		05/28/21 12:16	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/28/21 12:16	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 12:16	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		05/28/21 12:16	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/28/21 12:16	75-09-2	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: MW-6**      **Lab ID: 40227567001**      Collected: 05/26/21 10:20      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/28/21 12:16	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:16	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/28/21 12:16	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 12:16	108-88-3	
Trichloroethene	1.3	ug/L	1.0	0.32	1		05/28/21 12:16	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 12:16	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/28/21 12:16	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/28/21 12:16	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:16	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 12:16	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 12:16	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		05/28/21 12:16	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		05/28/21 12:16	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:16	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:16	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		05/28/21 12:16	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		05/28/21 12:16	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		05/28/21 12:16	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/28/21 12:16	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/28/21 12:16	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	89	%	70-130		1		05/28/21 12:16	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		05/28/21 12:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/28/21 12:16	2199-69-1	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: DUP05262021**      **Lab ID: 40227567002**      Collected: 05/26/21 00:00      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/28/21 12:35	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:35	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/28/21 12:35	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/28/21 12:35	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:35	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/28/21 12:35	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		05/28/21 12:35	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		05/28/21 12:35	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		05/28/21 12:35	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/28/21 12:35	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 12:35	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/28/21 12:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/28/21 12:35	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 12:35	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/28/21 12:35	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/28/21 12:35	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:35	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:35	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		05/28/21 12:35	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/28/21 12:35	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		05/28/21 12:35	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 12:35	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 12:35	106-43-4	
Benzene	4.9	ug/L	1.0	0.30	1		05/28/21 12:35	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:35	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/28/21 12:35	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 12:35	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/28/21 12:35	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/28/21 12:35	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/28/21 12:35	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 12:35	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/28/21 12:35	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/28/21 12:35	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/28/21 12:35	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		05/28/21 12:35	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/28/21 12:35	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/28/21 12:35	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/28/21 12:35	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 12:35	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 12:35	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		05/28/21 12:35	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/28/21 12:35	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 12:35	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		05/28/21 12:35	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/28/21 12:35	75-09-2	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: DUP05262021**      **Lab ID: 40227567002**      Collected: 05/26/21 00:00      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/28/21 12:35	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:35	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/28/21 12:35	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 12:35	108-88-3	
Trichloroethene	1.3	ug/L	1.0	0.32	1		05/28/21 12:35	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 12:35	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/28/21 12:35	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/28/21 12:35	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/28/21 12:35	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 12:35	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 12:35	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		05/28/21 12:35	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		05/28/21 12:35	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:35	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 12:35	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		05/28/21 12:35	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		05/28/21 12:35	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		05/28/21 12:35	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/28/21 12:35	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/28/21 12:35	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	88	%	70-130		1		05/28/21 12:35	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 12:35	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		05/28/21 12:35	2199-69-1	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: TRIP BLANK**      **Lab ID: 40227567003**      Collected: 05/26/21 00:00      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		05/28/21 11:56	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 11:56	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		05/28/21 11:56	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		05/28/21 11:56	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		05/28/21 11:56	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		05/28/21 11:56	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		05/28/21 11:56	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		05/28/21 11:56	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		05/28/21 11:56	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/28/21 11:56	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		05/28/21 11:56	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		05/28/21 11:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		05/28/21 11:56	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 11:56	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		05/28/21 11:56	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		05/28/21 11:56	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 11:56	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 11:56	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		05/28/21 11:56	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		05/28/21 11:56	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		05/28/21 11:56	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 11:56	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		05/28/21 11:56	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		05/28/21 11:56	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		05/28/21 11:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/28/21 11:56	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 11:56	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		05/28/21 11:56	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		05/28/21 11:56	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		05/28/21 11:56	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 11:56	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		05/28/21 11:56	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		05/28/21 11:56	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		05/28/21 11:56	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		05/28/21 11:56	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		05/28/21 11:56	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		05/28/21 11:56	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		05/28/21 11:56	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 11:56	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		05/28/21 11:56	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		05/28/21 11:56	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		05/28/21 11:56	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		05/28/21 11:56	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		05/28/21 11:56	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		05/28/21 11:56	75-09-2	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### ANALYTICAL RESULTS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

**Sample: TRIP BLANK**      **Lab ID: 40227567003**      Collected: 05/26/21 00:00      Received: 05/27/21 08:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Oxygenates</b>									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		05/28/21 11:56	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		05/28/21 11:56	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		05/28/21 11:56	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		05/28/21 11:56	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		05/28/21 11:56	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		05/28/21 11:56	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/28/21 11:56	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		05/28/21 11:56	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		05/28/21 11:56	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		05/28/21 11:56	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		05/28/21 11:56	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		05/28/21 11:56	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		05/28/21 11:56	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		05/28/21 11:56	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		05/28/21 11:56	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		05/28/21 11:56	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		05/28/21 11:56	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		05/28/21 11:56	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		05/28/21 11:56	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		05/28/21 11:56	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	90	%	70-130		1		05/28/21 11:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		05/28/21 11:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		05/28/21 11:56	2199-69-1	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 31401967.705-06.00 L13 MP 312  
Pace Project No.: 40227567

QC Batch:	386532	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Oxygenates
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40227567001, 40227567002, 40227567003

METHOD BLANK: 2230296 Matrix: Water  
Associated Lab Samples: 40227567001, 40227567002, 40227567003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	05/28/21 09:20	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	05/28/21 09:20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	05/28/21 09:20	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	05/28/21 09:20	
1,1-Dichloroethane	ug/L	<0.30	1.0	05/28/21 09:20	
1,1-Dichloroethene	ug/L	<0.58	1.0	05/28/21 09:20	
1,1-Dichloropropene	ug/L	<0.41	1.0	05/28/21 09:20	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	05/28/21 09:20	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	05/28/21 09:20	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/28/21 09:20	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	05/28/21 09:20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	05/28/21 09:20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	05/28/21 09:20	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	05/28/21 09:20	
1,2-Dichloroethane	ug/L	<0.29	1.0	05/28/21 09:20	
1,2-Dichloropropane	ug/L	<0.45	1.0	05/28/21 09:20	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	05/28/21 09:20	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	05/28/21 09:20	
1,3-Dichloropropane	ug/L	<0.30	1.0	05/28/21 09:20	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	05/28/21 09:20	
2,2-Dichloropropane	ug/L	<4.2	5.0	05/28/21 09:20	
2-Chlorotoluene	ug/L	<0.89	5.0	05/28/21 09:20	
4-Chlorotoluene	ug/L	<0.89	5.0	05/28/21 09:20	
Benzene	ug/L	<0.30	1.0	05/28/21 09:20	
Bromobenzene	ug/L	<0.36	1.0	05/28/21 09:20	
Bromochloromethane	ug/L	<0.36	5.0	05/28/21 09:20	
Bromodichloromethane	ug/L	<0.42	1.0	05/28/21 09:20	
Bromoform	ug/L	<3.8	5.0	05/28/21 09:20	
Bromomethane	ug/L	<1.2	5.0	05/28/21 09:20	
Carbon tetrachloride	ug/L	<0.37	1.0	05/28/21 09:20	
Chlorobenzene	ug/L	<0.86	1.0	05/28/21 09:20	
Chloroethane	ug/L	<1.4	5.0	05/28/21 09:20	
Chloroform	ug/L	<1.2	5.0	05/28/21 09:20	
Chloromethane	ug/L	<1.6	5.0	05/28/21 09:20	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	05/28/21 09:20	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	05/28/21 09:20	
Cyclohexane	ug/L	<1.3	5.0	05/28/21 09:20	
Dibromochloromethane	ug/L	<2.6	5.0	05/28/21 09:20	
Dibromomethane	ug/L	<0.99	5.0	05/28/21 09:20	
Dichlorodifluoromethane	ug/L	<0.46	5.0	05/28/21 09:20	

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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

METHOD BLANK: 2230296

Matrix: Water

Associated Lab Samples: 40227567001, 40227567002, 40227567003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	05/28/21 09:20	
Ethylbenzene	ug/L	<0.33	1.0	05/28/21 09:20	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	05/28/21 09:20	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	05/28/21 09:20	
m&p-Xylene	ug/L	<0.70	2.0	05/28/21 09:20	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	05/28/21 09:20	
Methylcyclohexane	ug/L	<1.2	5.0	05/28/21 09:20	
Methylene Chloride	ug/L	<0.32	5.0	05/28/21 09:20	
n-Butylbenzene	ug/L	<0.86	1.0	05/28/21 09:20	
n-Heptane	ug/L	<1.6	5.0	05/28/21 09:20	
n-Hexane	ug/L	<1.5	5.0	05/28/21 09:20	
n-Propylbenzene	ug/L	<0.35	1.0	05/28/21 09:20	
Naphthalene	ug/L	<1.1	5.0	05/28/21 09:20	
o-Xylene	ug/L	<0.35	1.0	05/28/21 09:20	
p-Isopropyltoluene	ug/L	<1.0	5.0	05/28/21 09:20	
sec-Butylbenzene	ug/L	<0.42	1.0	05/28/21 09:20	
Styrene	ug/L	<0.36	1.0	05/28/21 09:20	
tert-Butylbenzene	ug/L	<0.59	1.0	05/28/21 09:20	
Tetrachloroethene	ug/L	<0.41	1.0	05/28/21 09:20	
Toluene	ug/L	<0.29	1.0	05/28/21 09:20	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	05/28/21 09:20	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	05/28/21 09:20	
Trichloroethene	ug/L	<0.32	1.0	05/28/21 09:20	
Trichlorofluoromethane	ug/L	<0.42	1.0	05/28/21 09:20	
Vinyl chloride	ug/L	<0.17	1.0	05/28/21 09:20	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130	05/28/21 09:20	
4-Bromofluorobenzene (S)	%	93	70-130	05/28/21 09:20	
Toluene-d8 (S)	%	90	70-130	05/28/21 09:20	

LABORATORY CONTROL SAMPLE: 2230297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	62.4	125	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	37.9	76	66-130	
1,1,2-Trichloroethane	ug/L	50	44.7	89	70-130	
1,1-Dichloroethane	ug/L	50	54.2	108	68-132	
1,1-Dichloroethene	ug/L	50	61.9	124	85-126	
1,2,4-Trichlorobenzene	ug/L	50	44.3	89	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	37.1	74	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.5	95	70-130	
1,2-Dichlorobenzene	ug/L	50	43.4	87	70-130	
1,2-Dichloroethane	ug/L	50	57.4	115	70-130	
1,2-Dichloropropane	ug/L	50	51.4	103	78-125	
1,3-Dichlorobenzene	ug/L	50	44.6	89	70-130	

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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

LABORATORY CONTROL SAMPLE: 2230297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	44.9	90	70-130	
Benzene	ug/L	50	55.5	111	70-132	
Bromodichloromethane	ug/L	50	54.8	110	70-130	
Bromoform	ug/L	50	49.6	99	65-130	
Bromomethane	ug/L	50	61.6	123	44-128	
Carbon tetrachloride	ug/L	50	64.6	129	70-130	
Chlorobenzene	ug/L	50	48.2	96	70-130	
Chloroethane	ug/L	50	59.0	118	73-137	
Chloroform	ug/L	50	58.4	117	80-122	
Chloromethane	ug/L	50	46.7	93	27-148	
cis-1,2-Dichloroethene	ug/L	50	54.5	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	70-130	
Cyclohexane	ug/L	50	53.0	106	50-150	
Dibromochloromethane	ug/L	50	48.9	98	70-130	
Dichlorodifluoromethane	ug/L	50	58.8	118	22-151	
Ethylbenzene	ug/L	50	51.7	103	80-123	
Isopropylbenzene (Cumene)	ug/L	50	55.7	111	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	53.1	106	66-130	
Methylcyclohexane	ug/L	50	59.3	119	50-150	
Methylene Chloride	ug/L	50	56.7	113	70-130	
o-Xylene	ug/L	50	52.2	104	70-130	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	55.8	112	70-130	
Toluene	ug/L	50	49.3	99	80-121	
trans-1,2-Dichloroethene	ug/L	50	57.9	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	46.2	92	58-125	
Trichloroethene	ug/L	50	57.7	115	70-130	
Trichlorofluoromethane	ug/L	50	73.5	147	84-148	
Vinyl chloride	ug/L	50	56.8	114	63-142	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			91	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230978 2230979

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40227567001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	63.3	62.9	127	126	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	50	39.8	40.4	80	81	66-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	46.5	46.2	93	92	70-130	1	20	
1,1,2-Dichloroethane	ug/L	<0.30	50	50	50	56.3	55.1	113	110	68-132	2	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	62.8	61.2	126	122	76-132	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	46.4	47.0	93	94	70-130	1	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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230978												2230979											
Parameter	Units	40227567001		MS	MSD	MS		MSD		% Rec	% Rec	Limits	RPD	Max	RPD	Qual							
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec														
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	50	40.9	41.5	82	83	51-126	1	20										
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	50	49.1	48.6	98	97	70-130	1	20										
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	50	44.9	45.0	90	90	70-130	0	20										
1,2-Dichloroethane	ug/L	<0.29	50	50	50	50	59.3	59.1	119	118	70-130	0	20										
1,2-Dichloropropane	ug/L	<0.45	50	50	50	50	52.6	54.0	105	108	77-125	3	20										
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	50	46.1	46.2	92	92	70-130	0	20										
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50	50	46.6	46.4	93	93	70-130	0	20										
Benzene	ug/L	4.7	50	50	50	50	61.4	61.0	114	113	70-132	1	20										
Bromodichloromethane	ug/L	<0.42	50	50	50	50	57.5	57.9	115	116	70-130	1	20										
Bromoform	ug/L	<3.8	50	50	50	50	53.0	52.8	106	106	65-130	0	20										
Bromomethane	ug/L	<1.2	50	50	50	50	71.5	71.6	143	143	44-128	0	21	M1									
Carbon tetrachloride	ug/L	<0.37	50	50	50	50	65.4	64.3	131	129	70-132	2	20										
Chlorobenzene	ug/L	<0.86	50	50	50	50	49.2	48.2	98	96	70-130	2	20										
Chloroethane	ug/L	<1.4	50	50	50	50	55.2	54.8	110	110	70-137	1	20										
Chloroform	ug/L	<1.2	50	50	50	50	60.9	60.3	122	121	80-122	1	20										
Chloromethane	ug/L	<1.6	50	50	50	50	53.7	53.2	107	106	17-149	1	20										
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	50	56.0	56.9	112	114	70-130	2	20										
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	50	50	55.3	55.0	111	110	70-130	1	20										
Cyclohexane	ug/L	<1.3	50	50	50	50	49.9	48.7	100	97	50-150	2	20										
Dibromochloromethane	ug/L	<2.6	50	50	50	50	50.9	51.1	102	102	70-130	0	20										
Dichlorodifluoromethane	ug/L	<0.46	50	50	50	50	55.9	54.7	112	109	22-158	2	20										
Ethylbenzene	ug/L	<0.33	50	50	50	50	52.3	50.9	105	102	80-123	3	20										
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50	50	55.7	53.8	111	108	70-130	4	20										
m&p-Xylene	ug/L	<0.70	100	100	100	100	107	106	107	106	70-130	1	20										
Methyl-tert-butyl ether	ug/L	<1.1	50	50	50	50	56.4	56.8	113	114	66-130	1	20										
Methylcyclohexane	ug/L	<1.2	50	50	50	50	56.5	55.4	113	111	50-150	2	20										
Methylene Chloride	ug/L	<0.32	50	50	50	50	54.7	55.0	109	110	70-130	1	20										
o-Xylene	ug/L	<0.35	50	50	50	50	53.5	51.5	107	103	70-130	4	20										
Styrene	ug/L	<0.36	50	50	50	50	50.8	49.8	102	100	70-130	2	20										
Tetrachloroethene	ug/L	<0.41	50	50	50	50	56.0	54.4	112	109	70-130	3	20										
Toluene	ug/L	<0.29	50	50	50	50	49.7	48.5	99	97	80-121	2	20										
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	50	50	58.3	58.1	117	116	70-134	0	20										
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	50	50	48.2	48.1	96	96	58-130	0	20										
Trichloroethene	ug/L	1.3	50	50	50	50	60.5	60.3	119	118	70-130	0	20										
Trichlorofluoromethane	ug/L	<0.42	50	50	50	50	70.9	70.8	142	142	82-151	0	20										
Vinyl chloride	ug/L	<0.17	50	50	50	50	57.0	57.1	114	114	61-143	0	20										
1,2-Dichlorobenzene-d4 (S)	%								98	99	70-130												
4-Bromofluorobenzene (S)	%								95	97	70-130												
Toluene-d8 (S)	%								91	90	70-130												

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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## QUALIFIERS

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

---

### 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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 31401967.705-06.00 L13 MP 312

Pace Project No.: 40227567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40227567001	MW-6	EPA 8260	386532		
40227567002	DUP05262021	EPA 8260	386532		
40227567003	TRIP BLANK	EPA 8260	386532		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

CHAIN-OF-CUSTODY RECORD

WSP Office Address 5957 McKee Road, Suite 7, Madison, WI 53719						Requested Analyses & Preservatives										No. <u>40227567</u> <u>WSP</u>						
Project Name L13 MP 312 Valve Site			WSP Contact Name Tim Huff			Number of Containers	VOCs (EPA Method 8260) - 48 Hr TAT	GRO (WI Modified) - 40-day TAT	butane, ethane, heptane, propane (RSL-175)-10-day TAT											Laboratory Name & Location Pace Analytical - Green Bay, WI		
Project Location Ft Atkinson, WI			WSP Contact E-mail tim.huff@wsp.com																	Laboratory Project Manager Dan Milewsky		
Project Number & Task 31401967.705 - 06.00			WSP Contact Phone 571-217-6759																	Requested Turn-Around-Time <input type="checkbox"/> Standard <input type="checkbox"/> 72 HR <input type="checkbox"/> 24 HR <input checked="" type="checkbox"/> 48 HR <input type="checkbox"/> HR		
Sampler(s) Name(s) Matt Graby			Sampler(s) Signature(s) 																	Requested Deliverable <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> ERIMS EDD <input checked="" type="checkbox"/> GISKEY EDD <input type="checkbox"/> EQUIS EDD		
Sample Identification		Matrix	Collection Start*		Collection Stop*		Number of Containers	VOCs (EPA Method 8260) - 48 Hr TAT	GRO (WI Modified) - 40-day TAT	butane, ethane, heptane, propane (RSL-175)-10-day TAT											Sample Comments	
			Date	Time	Date	Time																
MW-6		6W			05/26/21	1828					3	X										001
DUPOS262021		6W			05/26/21	0800					3	X										002
TRIP BLANK							4	X										003				
Relinquished By (Signature) 		Date	Time	Received By (Signature) PALE MADISON				Date	Time	Shipment Method				Tracking Number(s)								
C.S Logistics		5/27/21	0830					5/27/21	0830													
Relinquished By (Signature)		Date	Time	Received By (Signature)				Date	Time	Number of Packages				Custody Seal Number(s)								

\*Use stop time/date for composite and/or air samples; use only start time/date for all other samples. Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)



Sample Preservation Receipt Form

Client Name: WSP

Project # 40227567

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:


Date/ Time:

Pace Lab #	Glass							Plastic					Vials					Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN	
001																3																		2.5 / 5 / 10
002																3																		2.5 / 5 / 10
003																5																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

12/7/21  
WSP

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_ Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: 26Mar2020
	Document No.: <b>ENV-FRM-GBAY-0014-Rev.00</b>	Author: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Project #: \_\_\_\_\_

 Client Name: WSP
**WO# : 40227567**

 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_


40227567

Tracking #: \_\_\_\_\_

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

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

 Packing Material:  Bubble Wrap  Bubble Bags  None  Other

 Thermometer Used SR - 90 Type of Ice:  Wet  Blue Dry None  Samples on ice, cooling process has begun

 Cooler Temperature Uncorr: 2 /Corr: 1.5

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

Person examining contents: Date: <u>5/27/14</u> /Initials: <u>[Signature]</u> Labeled By Initials: <u>[Signature]</u>
---

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: _____		
Trip Blank Present:	<input checked="" 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>449</u>		

 Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments 

 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

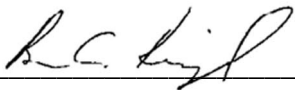
PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

**ENCLOSURE B – HYDROGEOLOGIST CERTIFICATION**

**CERTIFICATION**

Monitoring Well Sampling Results – MW-6  
Enbridge Line 13 MP 312 Valve Site  
Blackhawk Island Road  
Fort Atkinson, Wisconsin  
BRRTS Number: 02-28-586199

I, Brian C. Kimpel, certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

  
\_\_\_\_\_

6/11/2021

Brian C. Kimpel,  
Supervisory Hydrogeologist, Wisconsin P.G. #1140

Date