

**Notice:** This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

**NOTE:** Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

**Notification of Property Owners and Occupants:**

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

**Site Information**

Site Name		DNR ID # (BRRTS #)	
Enbridge Line 13 Blackhawk Valve		02-28-586199	
Address	City	State	ZIP Code
Blackhawk Island Road	Fort Atkinson	WI	53538

**Responsible Party**

The person(s) responsible for completing this environmental investigation is:

Property Owner

Enbridge Energy, Limited Partnership (Responsible Party / Operator)		Tri-State Holdings LLC (property owner)	
Address	City	State	ZIP Code
11 East Superior Street - Suite 125	Duluth	MN	55802
Contact Person	Phone Number (include area code)		
Karl Beaster, P.G.	(715) 718-1040		

Person or company that collected samples

WSP USA Inc.

**Sample Results (Results Attached)**

Reason for Sampling:  Routine  Other (define) Supplemental Site Investigation

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: <u>diluent liquid</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

**Contaminants in Vapor**

	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

# Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

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## Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

**You are not identified as the person that is responsible for this contamination.** However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

**Option for written exemption:** You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: [dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf](http://dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf).

## Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

### Environmental Consultant

Company Name		Contact Person Last Name		First Name	
WSP USA Inc.		Huff		Tim	
Address			City	State	ZIP Code
5957 McKee Road, Suite 7			Madison	WI	53719
Phone # (inc. area code)	Email				
(314) 206-4212	tim.huff@wsp.com				

Select which agency:  Natural Resources       Agriculture, Trade and Consumer Protection

### State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Rice		Caroline		(608) 219-2182	
Address			City	State	ZIP Code
3911 Fish Hatchery Rd			Fitchburg	WI	53711
Email					
caroline.rice@wisconsin.gov					



January 4, 2022

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-17-20  
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-17-20 that was sampled on December 14, 2021 at the Line 13 Milepost (MP) 312 Valve Site located at the intersection of Blackhawk Island Road and Westphal Lane near Fort Atkinson, Wisconsin (Site). The samples were collected in accordance with the Supplemental Site Investigation Work Plan (SSIWP), dated May 4, 2021, which was approved by the Wisconsin Department of Natural Resources (WDNR) in a letter dated May 26, 2021. This summary of results is provided to fulfill the reporting requirements of NR 716.14, Wis. Adm. Code. A thorough presentation of the sampling procedures and results will be included in the Supplemental Site Investigation Report.

WSP collected water samples from monitoring well MW-17-20 at the Site on December 14, 2021. The well location is shown on Figure 1. Groundwater samples were collected in accordance with WSP's Standard Operating Procedures using low-flow purge and sample methods. Samples were 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 (DUP12142021), one equipment blank sample (EB12142021) collected from the decontaminated submersible pump, and one trip blank sample (TRIP BLANK), which were submitted with the monitoring well sample.

Table 1 includes the laboratory analytical results for select compounds from the December sampling event. Table 2 includes the historical laboratory analytical results for select compounds from previous sampling events. Enclosure A includes the laboratory report from the December sampling event. No VOCs were detected at a concentration above the laboratory method detection limit in any of the samples. The sampling results were provided verbally to the property owner on December 20, 2021.

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

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



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

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

Kind regards,

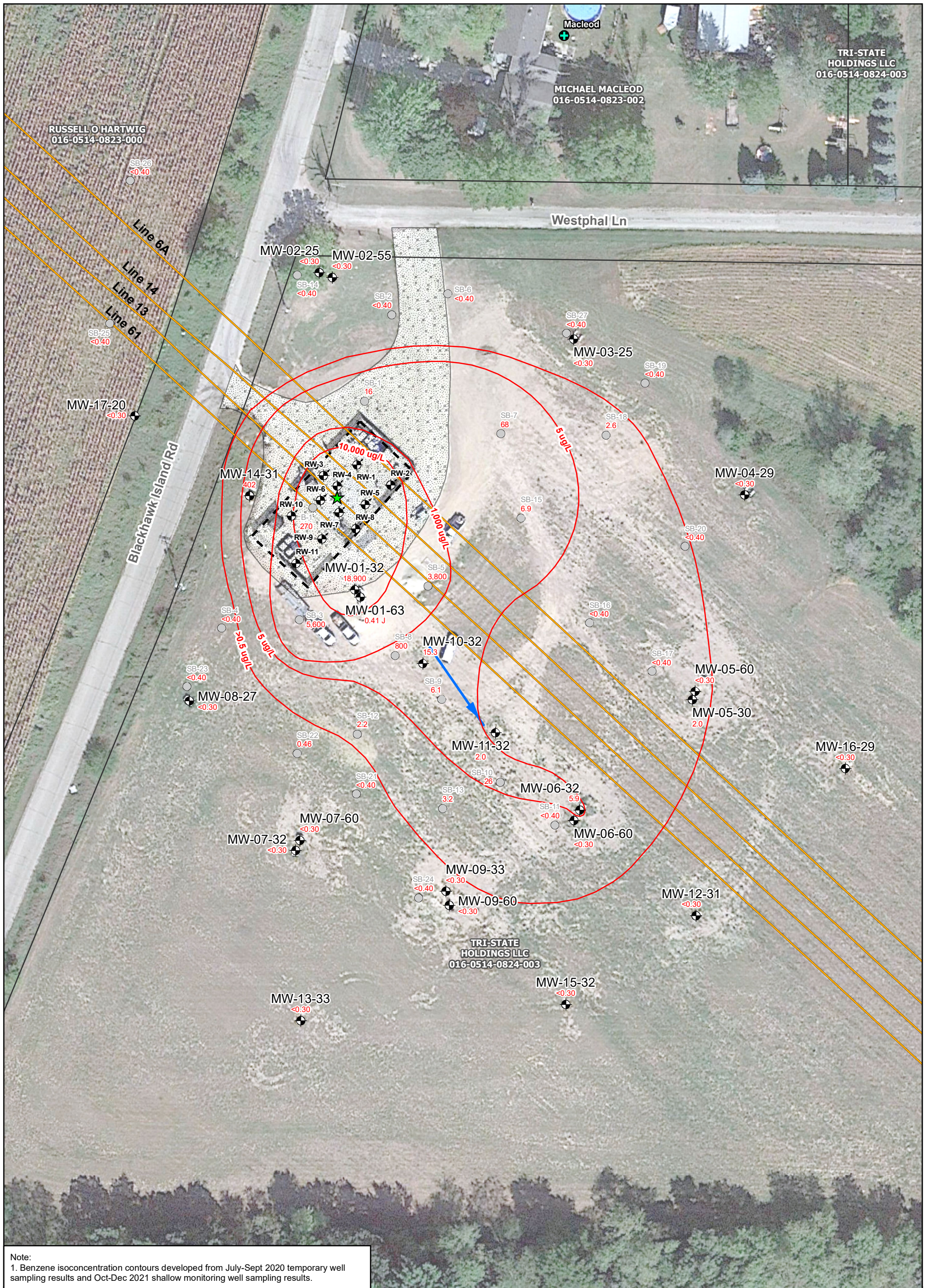
A handwritten signature in black ink that reads "Tim Huff". The signature is written in a cursive style.

Timothy A. Huff  
Senior Lead Geologist

TAH :  
\\corp.pbwan.net\us\centraldata\usmes100\es-shares\clients\enbridge\fort atkinson, wi - 113 mp312\\_work plans and reports\2022-01 mw-17 sampling results to wdnr\2022.01.04\_line13 mp312\_monitoring well mw-17-20 sampling results.docx

Encl.

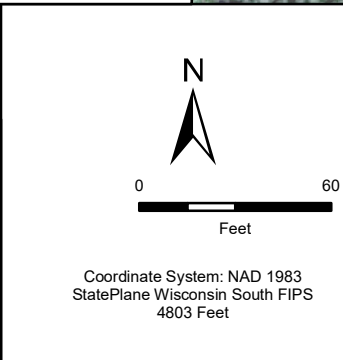
FIGURE



Note:  
1. Benzene isoconcentration contours developed from July-Sept 2020 temporary well sampling results and Oct-Dec 2021 shallow monitoring well sampling results.

**ENBRIDGE**

Drawn: WSP 1/3/2022  
Approved: WSP 1/3/2022  
Project #: 31401967.705



- Legend**
- ★ Approximate Release Location
  - ⊕ Monitoring Well
  - ⊖ Remediation Well
  - ⊕ Potable Well
  - Sept 2020 Soil Boring / Temporary Well
  - Groundwater Flow Direction
  - Benzene Isoconcentration Contours (ug/l)
  - Enbridge Pipeline
  - ▨ Gravel Perimeter
  - ▭ Site Fence
  - ▭ Property Parcels

**FIGURE 1**  
**MONITORING WELL AND**  
**REMEDATION WELL LOCATIONS**

**LINE 13 MP 312 VALVE SITE**  
**FORT ATKINSON, WISCONSIN**

**ENBRIDGE ENERGY**  
**LIMITED PARTNERSHIP**

## TABLES

**Table 1**  
**Monitoring Well Sampling Analytical Results for Select Compounds - December 2021 Data**  
**Line 13 MP312 Valve Site**  
**Fort Atkinson, Wisconsin**

Well ID	Sample Date	Volatile Organic Compounds					Field Parameters (Final Reading)								
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
		Enforcement Standard (a)	700	800	2,000	5									
	Preventative Action Limit (a)	0.5	140	160	400	0.5									
MW-17-20	12/14/21	<0.30	<0.33	<0.29	<1.05	<0.32	7.0	6.76	0.750	34.4	1.51	13.56	111	Clear	None
	12/14/21-Duplicate	<0.30	<0.33	<0.29	<1.05	<0.32	--	--	--	--	--	--	--	--	--
Trip Blank	12/14/21	<0.30	<0.33	<0.29	<1.05	<0.32	--	--	--	--	--	--	--	--	--
Equipment Blank	12/14/21	<0.30	<0.33	<0.29	<1.05	<0.32	--	--	--	--	--	--	--	--	--

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.

NA = Not accessible.

"<" = Not detected above the reported laboratory detection limit.

ug/L = Micrograms per liter.



**Table 2**  
**Monitoring Well Sampling Analytical Results for Select Compounds - Historical Data**  
**Line 13 MP312 Valve Site**  
**Fort Atkinson, Wisconsin**

Well ID	Sample Date	Volatile Organic Compounds					Field Parameters (Final Reading)									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor	
		Enforcement Standard (a) Preventative Action Limit (a)	5 140	700 160	800 400	2,000 400	5 0.5									
MW-01-32	10/09/20	<b>23,700</b>	222	<b>7,650</b>	728	<51.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/15/21	<b>24,400</b>	244	<b>10,400</b>	775	<51.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<b>17,600</b>	220	<b>9,280</b>	758	<12.8	8.25	6.90	0.909	5.2	2.65	12.11	-88	Clear	Mild Odor	
	07/08/21	<b>21,800</b>	188	<b>8,150</b>	586	<16.0	4.2	7.81	0.810	0.0	0.00	16.75	35	Clear	None	
	10/26/21	<b>18,900</b>	167 J	<b>7,830</b>	503	<63.9	10	7.04	0.655	4.4	0.70	15.33	-59	Clear	Slight Odor	
MW-01-63	09/08/21	0.50 J	<0.33	<0.29	<1.05	<0.32	15.6	7.27	0.666	10.8	0.00	16.24	-192	Clear	None	
	10/27/21	0.41 J	<0.33	<0.29	<1.05	<0.32	16.5	7.26	0.662	6.0	0.00	15.06	-168	Clear	None	
MW-02-25	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	8.85	7.29	0.840	7.3	7.78	4.49	131	Clear	None	
	07/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	8.4	7.08	0.767	0.0	0.79	13.31	278	Clear	None	
	10/25/21	<0.30	<0.33	<0.29	<1.05	<0.32	7.75	7.29	0.515	0.0	0.58	15.06	205	Clear	None	
MW-02-55	09/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	15	7.11	0.934	230	1.35	14.80	-69	Cloudy	None	
	10/27/21	<0.30	<0.33	<0.29	<1.05	<0.32	24	7.08	1.24	3.1	5.42	13.05	22	Clear	None	
MW-03-25	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	5	7.20	0.952	3.1	0.00	8.00	146	Clear	None	
	07/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	11.2	6.75	0.729	40.7	2.45	17.14	170	Clear	None	
	10/25/21	<0.30	<0.33	<0.29	<1.05	<0.32	11	7.18	0.561	0.0	3.00	13.81	244	Clear	None	
MW-04-29	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	5.25	6.92	0.878	6.1	6.55	8.58	164	Clear	None	
	07/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	5.85	5.95	0.734	0.0	4.10	15.12	311	Clear	None	
	10/26/21	<0.30	<0.33	<0.29	<1.05	<0.32	9	7.10	0.604	13.3	4.69	13.05	177	Clear	None	
MW-05-30	10/08/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	6	6.77	1.13	10.1	3.47	8.26	160	Clear	None	
	07/09/21	0.61 J	<0.33	<0.29	<1.05	<0.32	7.15	6.61	1.12	0.0	0.45	14.51	113	Clear	None	
	09/01/21	1.3	<0.33	<0.29	<1.05	<0.32	13.2	6.70	0.932	2.1	0.85	15.11	140	Clear	None	
	10/27/21	2.0	<0.33	<0.29	<1.05	<0.32	10	7.01	0.751	0.0	0.69	15.07	170	Clear	None	
MW-05-60	09/01/21	<0.30	<0.33	<0.29	<1.05	<0.32	27.6	7.52	0.611	14.1	0.00	15.45	-530	Clear	None	
	10/27/21	<0.30	<0.33	<0.29	<1.05	<0.32	11	7.51	0.718	22.9	5.98	13.84	1	Clear	None	

**Table 2**  
**Monitoring Well Sampling Analytical Results for Select Compounds - Historical Data**  
**Line 13 MP312 Valve Site**  
**Fort Atkinson, Wisconsin**

Well ID	Sample Date	Volatile Organic Compounds					Field Parameters (Final Reading)									
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor	
		Enforcement Standard (a) Preventative Action Limit (a)	5 140	700 160	800 400	2,000 400	5 0.5									
MW-06-32	10/08/20	<0.25	<0.32	<0.27	<0.73	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	0.34 J	<0.32	<0.27	<0.26	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	3.4	<0.32	<0.27	<0.73	0.95 J	4.5	6.74	1.18	0.9	0.85	11.37	163	Clear	None	
	05/26/21	4.7	<0.33	<0.29	<1.05	1.3	6.25	6.73	0.991	6.1	0.00	21.41	127	Clear	None	
	06/24/21	6.3	<0.33	<0.29	<1.05	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	07/09/21	6.8	<0.33	<0.29	<1.05	1.1	7.2	6.35	1.05	0.0	0.00	21.51	324	Clear	None	
	08/31/21	7.5	<0.33	<0.29	<1.05	0.53 J	13.2	6.66	0.824	3.3	0.00	22.41	149	Clear	None	
	10/27/21	5.9	<0.33	<0.29	<1.05	1.6	10	7.10	0.808	0.0	0.00	13.93	169	Clear	None	
MW-06-60	08/31/21	<0.30	<0.33	0.33J	<1.05	11.3	18	7.32	0.626	9.5	0.14	15.47	-522	Clear	None	
	10/27/21	<0.30	<0.33	<0.29	<1.05	15.0	22.5	7.35	0.680	31.0	0.00	14.07	-144	Clear	None	
MW-07-32	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	13	7.44	0.905	17.0	12.90	9.76	189	Clear	None	
	07/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	6.75	6.90	1.03	42.2	5.58	12.89	163	Clear	None	
	10/26/21	<0.30	<0.33	<0.29	<1.05	<0.32	11.5	7.15	0.721	9.3	6.29	13.09	159	Clear	None	
MW-07-60	09/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	10.5	7.48	0.428	0.0	0.00	14.49	-329	Clear	None	
	10/26/21	<0.30	<0.33	<0.29	<1.05	<0.32	10	7.61	0.549	0.0	1.00	13.80	-51	Clear	None	
MW-08-27	10/09/20	<0.25	<0.32	<0.27	<0.73	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	01/14/21	<0.25	<0.32	<0.27	<0.26	<0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	04/01/21	<0.25	<0.32	<0.27	<0.73	<0.26	17	7.48	1.12	7.8	3.66	9.30	167	Clear	None	
	07/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	6	6.82	1.10	0.0	1.10	12.19	263	Clear	None	
	10/26/21	<0.30	<0.33	<0.29	<1.05	<0.32	10	7.14	0.77	3.5	8.63	14.10	196	Clear	None	
MW-09-33	09/02/21	<0.30	<0.33	<0.29	<1.05	<0.32	12	7.35	1.01	0.0	2.88	15.44	50	Clear	None	
	10/27/21	<0.30	<0.33	<0.29	<1.05	<0.32	10.5	7.14	0.746	0.2	0.00	12.61	236	Clear	None	
MW-09-60	09/02/21	<0.30	<0.33	<0.29	<1.05	<0.32	18	7.53	0.729	0.0	0.60	15.02	-232	Clear	None	
	10/27/21	<0.30	<0.33	<0.29	<1.05	<0.32	13.5	7.28	0.611	1.6	0.00	13.09	-39	Clear	None	
MW-10-32	09/08/21	8.9	<0.33	<0.29	<1.05	<0.32	10.5	6.93	0.737	0.0	0.00	15.97	-73	Clear	None	
	10/27/21	15.3	<0.33	<0.29	<1.05	<0.32	18	6.80	0.918	0.0	1.26	15.43	-43	Clear	None	
MW-11-32	09/08/21	2.2	<0.33	<0.29	<1.05	<0.32	12	7.09	0.735	0.0	0.00	15.87	-141	Clear	None	
	10/27/21	2.0	<0.33	<0.29	<1.05	0.47 J	13.5	6.89	1.05	0.0	0.22	14.99	-92	Clear	None	
MW-12-31	09/01/21	<0.30	<0.33	<0.29	<1.05	<0.32	10.8	7.17	0.890	2.5	0.80	16.52	107	Clear	None	
	10/25/21	<0.30	<0.33	<0.29	<1.05	<0.32	15	6.95	1.090	0.0	3.14	14.30	170	Clear	None	

**Table 2**  
**Monitoring Well Sampling Analytical Results for Select Compounds - Historical Data**  
**Line 13 MP312 Valve Site**  
**Fort Atkinson, Wisconsin**

Well ID	Sample Date	Volatile Organic Compounds					Field Parameters (Final Reading)								
		Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	Trichloroethene (µg/L)	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)	Appearance of Purge Water	Odor
		Enforcement Standard (a)	700	800	2,000	5									
		Preventative Action Limit (a)	140	160	400	0.5									
MW-13-33	09/08/21	<0.30	<0.33	<0.29	<1.05	<0.32	19.2	6.17	0.892	0.0	1.11	12.89	-206	Clear	None
	10/27/21	<0.30	<0.33	<0.29	<1.05	<0.32	16.5	7.35	0.660	5.1	0.00	13.44	30	Clear	None
MW-14-31	09/07/21	<b>273</b>	0.77 J	3.4	2.09 J	<0.32	12	7.02	0.688	0.0	0.00	17.88	-193	Clear	None
	10/27/21	<b>402</b>	0.78 J	1.3	0.45 J	<0.32	10	7.18	0.635	0.0	0.00	16.59	-45	Clear	None
MW-15-32	09/02/21	<0.30	<0.33	<0.29	<1.05	<0.32	16.8	7.36	0.890	0.0	1.19	15.78	28	Clear	None
	10/25/21	<0.30	<0.33	<0.29	<1.05	<0.32	13.5	7.21	0.623	5.3	0.00	12.35	149	Clear	None
MW-16-29	09/01/21	<0.30	<0.33	<0.29	<1.05	<0.32	10.8	7.20	0.776	0.0	0.80	13.24	40	Clear	None
	10/25/21	<0.30	<0.33	<0.29	<1.05	<0.32	10.5	7.13	0.631	0.3	0.00	13.56	187	Clear	None
MW-17-20	12/14/21	<0.30	<0.33	<0.29	<1.05	<0.32	7.0	6.76	0.750	34.4	1.51	13.56	111	Clear	None

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.

NA = Not accessible.

"<" = Not detected above the reported method detection limit.

ug/L = Micrograms per liter.

## ENCLOSURE A – LABORATORY ANALYTICAL RESULTS

December 17, 2021

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

RE: Project: 31401967.705 LN13MP312 VALVE  
Pace Project No.: 40238325

Dear Timothy Huff:

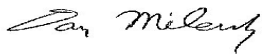
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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

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## CERTIFICATIONS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40238325001	MW-17	Water	12/14/21 12:40	12/15/21 07:45
40238325002	DUP12142021	Water	12/14/21 00:00	12/15/21 07:45
40238325003	EB12142021	Water	12/14/21 13:00	12/15/21 07:45
40238325004	TRIP BLANK	Water	12/14/21 00:00	12/15/21 07:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40238325001	MW-17	EPA 8260	LAP	68
40238325002	DUP12142021	EPA 8260	LAP	68
40238325003	EB12142021	EPA 8260	LAP	68
40238325004	TRIP BLANK	EPA 8260	LAP	68

PASI-G = Pace Analytical Services - Green Bay

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## ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: MW-17**      **Lab ID: 40238325001**      Collected: 12/14/21 12:40      Received: 12/15/21 07:45      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		12/16/21 20:36	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:36	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/16/21 20:36	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/16/21 20:36	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:36	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/16/21 20:36	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/16/21 20:36	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/16/21 20:36	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/16/21 20:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/16/21 20:36	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/16/21 20:36	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/16/21 20:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/16/21 20:36	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 20:36	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/16/21 20:36	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/16/21 20:36	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:36	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:36	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:36	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/16/21 20:36	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/16/21 20:36	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 20:36	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 20:36	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		12/16/21 20:36	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/16/21 20:36	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 20:36	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/16/21 20:36	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/16/21 20:36	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/16/21 20:36	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 20:36	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/16/21 20:36	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/16/21 20:36	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/16/21 20:36	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		12/16/21 20:36	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/16/21 20:36	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/16/21 20:36	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/16/21 20:36	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 20:36	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 20:36	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/16/21 20:36	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/16/21 20:36	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 20:36	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		12/16/21 20:36	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/16/21 20:36	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: MW-17**      **Lab ID: 40238325001**      Collected: 12/14/21 12:40      Received: 12/15/21 07:45      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		12/16/21 20:36	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:36	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/16/21 20:36	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/16/21 20:36	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/16/21 20:36	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 20:36	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/16/21 20:36	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/16/21 20:36	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:36	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/16/21 20:36	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 20:36	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		12/16/21 20:36	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		12/16/21 20:36	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:36	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:36	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/16/21 20:36	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/16/21 20:36	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/16/21 20:36	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/16/21 20:36	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/16/21 20:36	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	99	%	70-130		1		12/16/21 20:36	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/16/21 20:36	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		12/16/21 20:36	2199-69-1	

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## ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: DUP12142021**      **Lab ID: 40238325002**      Collected: 12/14/21 00:00      Received: 12/15/21 07:45      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		12/16/21 20:55	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/16/21 20:55	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/16/21 20:55	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:55	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/16/21 20:55	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/16/21 20:55	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/16/21 20:55	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/16/21 20:55	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/16/21 20:55	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/16/21 20:55	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/16/21 20:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/16/21 20:55	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 20:55	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/16/21 20:55	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/16/21 20:55	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:55	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:55	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/16/21 20:55	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/16/21 20:55	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/16/21 20:55	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 20:55	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 20:55	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		12/16/21 20:55	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/16/21 20:55	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 20:55	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/16/21 20:55	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/16/21 20:55	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/16/21 20:55	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 20:55	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/16/21 20:55	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/16/21 20:55	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/16/21 20:55	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		12/16/21 20:55	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/16/21 20:55	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/16/21 20:55	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/16/21 20:55	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 20:55	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 20:55	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/16/21 20:55	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/16/21 20:55	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 20:55	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		12/16/21 20:55	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/16/21 20:55	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: DUP12142021**      **Lab ID: 40238325002**      Collected: 12/14/21 00:00      Received: 12/15/21 07:45      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		12/16/21 20:55	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:55	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/16/21 20:55	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/16/21 20:55	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/16/21 20:55	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 20:55	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/16/21 20:55	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/16/21 20:55	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/16/21 20:55	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/16/21 20:55	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 20:55	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		12/16/21 20:55	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		12/16/21 20:55	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:55	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/16/21 20:55	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/16/21 20:55	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/16/21 20:55	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/16/21 20:55	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/16/21 20:55	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/16/21 20:55	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	98	%	70-130		1		12/16/21 20:55	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/16/21 20:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		12/16/21 20:55	2199-69-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: EB12142021**      **Lab ID: 40238325003**      Collected: 12/14/21 13:00      Received: 12/15/21 07:45      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		12/16/21 18:58	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 18:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/16/21 18:58	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/16/21 18:58	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 18:58	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/16/21 18:58	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/16/21 18:58	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/16/21 18:58	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/16/21 18:58	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/16/21 18:58	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/16/21 18:58	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/16/21 18:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/16/21 18:58	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 18:58	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/16/21 18:58	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/16/21 18:58	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 18:58	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 18:58	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/16/21 18:58	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/16/21 18:58	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/16/21 18:58	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 18:58	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 18:58	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		12/16/21 18:58	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 18:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/16/21 18:58	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 18:58	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/16/21 18:58	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/16/21 18:58	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/16/21 18:58	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 18:58	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/16/21 18:58	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/16/21 18:58	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/16/21 18:58	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		12/16/21 18:58	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/16/21 18:58	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/16/21 18:58	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/16/21 18:58	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 18:58	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 18:58	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/16/21 18:58	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/16/21 18:58	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 18:58	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		12/16/21 18:58	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/16/21 18:58	75-09-2	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: EB12142021**      **Lab ID: 40238325003**      Collected: 12/14/21 13:00      Received: 12/15/21 07:45      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		12/16/21 18:58	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		12/16/21 18:58	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/16/21 18:58	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/16/21 18:58	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/16/21 18:58	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 18:58	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/16/21 18:58	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/16/21 18:58	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/16/21 18:58	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/16/21 18:58	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 18:58	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		12/16/21 18:58	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		12/16/21 18:58	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 18:58	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/16/21 18:58	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/16/21 18:58	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/16/21 18:58	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/16/21 18:58	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/16/21 18:58	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/16/21 18:58	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		1		12/16/21 18:58	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/16/21 18:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		12/16/21 18:58	2199-69-1	

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### ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

**Sample: TRIP BLANK**      **Lab ID: 40238325004**      Collected: 12/14/21 00:00      Received: 12/15/21 07:45      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		12/16/21 19:17	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 19:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		12/16/21 19:17	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		12/16/21 19:17	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		12/16/21 19:17	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		12/16/21 19:17	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		12/16/21 19:17	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		12/16/21 19:17	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		12/16/21 19:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/16/21 19:17	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		12/16/21 19:17	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		12/16/21 19:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		12/16/21 19:17	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 19:17	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		12/16/21 19:17	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		12/16/21 19:17	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 19:17	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 19:17	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		12/16/21 19:17	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		12/16/21 19:17	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		12/16/21 19:17	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 19:17	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		12/16/21 19:17	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		12/16/21 19:17	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		12/16/21 19:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/16/21 19:17	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 19:17	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		12/16/21 19:17	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		12/16/21 19:17	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		12/16/21 19:17	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 19:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		12/16/21 19:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		12/16/21 19:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		12/16/21 19:17	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		12/16/21 19:17	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		12/16/21 19:17	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		12/16/21 19:17	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		12/16/21 19:17	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 19:17	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		12/16/21 19:17	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		12/16/21 19:17	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		12/16/21 19:17	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		12/16/21 19:17	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		12/16/21 19:17	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		12/16/21 19:17	75-09-2	

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### ANALYTICAL RESULTS

Project: 31401967.705 LN13MP312 VALVE  
Pace Project No.: 40238325

**Sample: TRIP BLANK**      **Lab ID: 40238325004**      Collected: 12/14/21 00:00      Received: 12/15/21 07:45      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		12/16/21 19:17	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		12/16/21 19:17	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		12/16/21 19:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		12/16/21 19:17	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		12/16/21 19:17	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		12/16/21 19:17	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/16/21 19:17	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		12/16/21 19:17	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		12/16/21 19:17	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		12/16/21 19:17	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		12/16/21 19:17	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		12/16/21 19:17	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		12/16/21 19:17	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		12/16/21 19:17	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		12/16/21 19:17	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		12/16/21 19:17	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		12/16/21 19:17	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		12/16/21 19:17	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		12/16/21 19:17	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		12/16/21 19:17	10061-02-6	
<b>Surrogates</b>									
Toluene-d8 (S)	99	%	70-130		1		12/16/21 19:17	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/16/21 19:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		12/16/21 19:17	2199-69-1	

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### QUALITY CONTROL DATA

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

QC Batch: 404317

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Oxygenates

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40238325001, 40238325002, 40238325003, 40238325004

METHOD BLANK: 2334068

Matrix: Water

Associated Lab Samples: 40238325001, 40238325002, 40238325003, 40238325004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	12/16/21 16:40	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	12/16/21 16:40	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	12/16/21 16:40	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	12/16/21 16:40	
1,1-Dichloroethane	ug/L	<0.30	1.0	12/16/21 16:40	
1,1-Dichloroethene	ug/L	<0.58	1.0	12/16/21 16:40	
1,1-Dichloropropene	ug/L	<0.41	1.0	12/16/21 16:40	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	12/16/21 16:40	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	12/16/21 16:40	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/16/21 16:40	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	12/16/21 16:40	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	12/16/21 16:40	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	12/16/21 16:40	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	12/16/21 16:40	
1,2-Dichloroethane	ug/L	<0.29	1.0	12/16/21 16:40	
1,2-Dichloropropane	ug/L	<0.45	1.0	12/16/21 16:40	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	12/16/21 16:40	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	12/16/21 16:40	
1,3-Dichloropropane	ug/L	<0.30	1.0	12/16/21 16:40	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	12/16/21 16:40	
2,2-Dichloropropane	ug/L	<4.2	5.0	12/16/21 16:40	
2-Chlorotoluene	ug/L	<0.89	5.0	12/16/21 16:40	
4-Chlorotoluene	ug/L	<0.89	5.0	12/16/21 16:40	
Benzene	ug/L	<0.30	1.0	12/16/21 16:40	
Bromobenzene	ug/L	<0.36	1.0	12/16/21 16:40	
Bromochloromethane	ug/L	<0.36	5.0	12/16/21 16:40	
Bromodichloromethane	ug/L	<0.42	1.0	12/16/21 16:40	
Bromoform	ug/L	<3.8	5.0	12/16/21 16:40	
Bromomethane	ug/L	<1.2	5.0	12/16/21 16:40	
Carbon tetrachloride	ug/L	<0.37	1.0	12/16/21 16:40	
Chlorobenzene	ug/L	<0.86	1.0	12/16/21 16:40	
Chloroethane	ug/L	<1.4	5.0	12/16/21 16:40	
Chloroform	ug/L	<1.2	5.0	12/16/21 16:40	
Chloromethane	ug/L	<1.6	5.0	12/16/21 16:40	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	12/16/21 16:40	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	12/16/21 16:40	
Cyclohexane	ug/L	<1.3	5.0	12/16/21 16:40	
Dibromochloromethane	ug/L	<2.6	5.0	12/16/21 16:40	
Dibromomethane	ug/L	<0.99	5.0	12/16/21 16:40	
Dichlorodifluoromethane	ug/L	<0.46	5.0	12/16/21 16:40	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 31401967.705 LN13MP312 VALVE  
Pace Project No.: 40238325

METHOD BLANK: 2334068 Matrix: Water  
Associated Lab Samples: 40238325001, 40238325002, 40238325003, 40238325004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	12/16/21 16:40	
Ethylbenzene	ug/L	<0.33	1.0	12/16/21 16:40	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	12/16/21 16:40	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	12/16/21 16:40	
m&p-Xylene	ug/L	<0.70	2.0	12/16/21 16:40	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	12/16/21 16:40	
Methylcyclohexane	ug/L	<1.2	5.0	12/16/21 16:40	
Methylene Chloride	ug/L	<0.32	5.0	12/16/21 16:40	
n-Butylbenzene	ug/L	<0.86	1.0	12/16/21 16:40	
n-Heptane	ug/L	<1.6	5.0	12/16/21 16:40	
n-Hexane	ug/L	<1.5	5.0	12/16/21 16:40	
n-Propylbenzene	ug/L	<0.35	1.0	12/16/21 16:40	
Naphthalene	ug/L	<1.1	5.0	12/16/21 16:40	
o-Xylene	ug/L	<0.35	1.0	12/16/21 16:40	
p-Isopropyltoluene	ug/L	<1.0	5.0	12/16/21 16:40	
sec-Butylbenzene	ug/L	<0.42	1.0	12/16/21 16:40	
Styrene	ug/L	<0.36	1.0	12/16/21 16:40	
tert-Butylbenzene	ug/L	<0.59	1.0	12/16/21 16:40	
Tetrachloroethene	ug/L	<0.41	1.0	12/16/21 16:40	
Toluene	ug/L	<0.29	1.0	12/16/21 16:40	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	12/16/21 16:40	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	12/16/21 16:40	
Trichloroethene	ug/L	<0.32	1.0	12/16/21 16:40	
Trichlorofluoromethane	ug/L	<0.42	1.0	12/16/21 16:40	
Vinyl chloride	ug/L	<0.17	1.0	12/16/21 16:40	
1,2-Dichlorobenzene-d4 (S)	%	100	70-130	12/16/21 16:40	
4-Bromofluorobenzene (S)	%	97	70-130	12/16/21 16:40	
Toluene-d8 (S)	%	98	70-130	12/16/21 16:40	

LABORATORY CONTROL SAMPLE: 2334069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	56.1	112	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	50.4	101	66-130	
1,1,2-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1-Dichloroethane	ug/L	50	56.2	112	68-132	
1,1-Dichloroethene	ug/L	50	54.0	108	85-126	
1,2,4-Trichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.7	95	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,2-Dichloroethane	ug/L	50	53.5	107	70-130	
1,2-Dichloropropane	ug/L	50	54.7	109	78-125	
1,3-Dichlorobenzene	ug/L	50	52.8	106	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 31401967.705 LN13MP312 VALVE  
Pace Project No.: 40238325

LABORATORY CONTROL SAMPLE: 2334069

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	53.7	107	70-130	
Benzene	ug/L	50	54.8	110	70-132	
Bromodichloromethane	ug/L	50	54.0	108	70-130	
Bromoform	ug/L	50	53.2	106	65-130	
Bromomethane	ug/L	50	50.9	102	44-128	
Carbon tetrachloride	ug/L	50	57.9	116	70-130	
Chlorobenzene	ug/L	50	53.9	108	70-130	
Chloroethane	ug/L	50	52.7	105	73-137	
Chloroform	ug/L	50	56.8	114	80-122	
Chloromethane	ug/L	50	46.3	93	27-148	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.7	107	70-130	
Cyclohexane	ug/L	50	61.8	124	50-150	
Dibromochloromethane	ug/L	50	52.7	105	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	22-151	
Ethylbenzene	ug/L	50	56.0	112	80-123	
Isopropylbenzene (Cumene)	ug/L	50	59.1	118	70-130	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	66-130	
Methylcyclohexane	ug/L	50	59.8	120	50-150	
Methylene Chloride	ug/L	50	53.5	107	70-130	
o-Xylene	ug/L	50	55.6	111	70-130	
Styrene	ug/L	50	59.8	120	70-130	
Tetrachloroethene	ug/L	50	56.6	113	70-130	
Toluene	ug/L	50	54.4	109	80-121	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	55.0	110	58-125	
Trichloroethene	ug/L	50	56.1	112	70-130	
Trichlorofluoromethane	ug/L	50	56.2	112	84-148	
Vinyl chloride	ug/L	50	54.6	109	63-142	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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## QUALIFIERS

Project: 31401967.705 LN13MP312 VALVE

Pace Project No.: 40238325

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### 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.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 31401967.705 LN13MP312 VALVE  
Pace Project No.: 40238325

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40238325001	MW-17	EPA 8260	404317		
40238325002	DUP12142021	EPA 8260	404317		
40238325003	EB12142021	EPA 8260	404317		
40238325004	TRIP BLANK	EPA 8260	404317		

**REPORT OF LABORATORY ANALYSIS**

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40238325



### CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

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

**ALL SHADED AREAS are for LAB USE ONLY**

Company: WSP Billing Information: Tim.Hutt@wsp.com

Address: 5957 McKeel Rd, Madison, WI

Report To: Tim Hutt Email To: [Signature]

Copy To: \_\_\_\_\_ Site Collection Info/Address: \_\_\_\_\_

Customer Project Name/Number: 31401967.705 / Value Site State: WI County/City: Jefferson/Ft. Atkinson Time Zone Collected: PT [ ] MT [X] CT [ ] ET [ ]

Phone: 571-217-6754 Site/Facility ID #: \_\_\_\_\_ Compliance Monitoring?  Yes  No

Email: Tim.Hutt@wsp.com

Collected By (print): Matt Gray Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_

Collected By (signature): [Signature] Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_

Turnaround Date Required: (48hr) Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day Field Filtered (if applicable):  Yes  No

Archive: \_\_\_\_\_ Analysis: \_\_\_\_\_

Hold: \_\_\_\_\_ (Expedite Charges Apply)

Container Preservative Type \*\* 3 Lab Project Manager: \_\_\_\_\_

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other \_\_\_\_\_

Analyses	Lab Profile/Line:
VOC WILIST 8260	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact <u>Y</u> <u>N</u> <u>NA</u>
	Custody Signatures Present <u>Y</u> <u>N</u> <u>NA</u>
	Collector Signature Present <u>Y</u> <u>N</u> <u>NA</u>
	Bottles Intact <u>Y</u> <u>N</u> <u>NA</u>
	Correct Bottles <u>Y</u> <u>N</u> <u>NA</u>
	Sufficient Volume <u>Y</u> <u>N</u> <u>NA</u>
	Samples Received on Ice <u>Y</u> <u>N</u> <u>NA</u>
	VOA - Headspace Acceptable <u>Y</u> <u>N</u> <u>NA</u>
	USDA Regulated Soils <u>Y</u> <u>N</u> <u>NA</u>
	Samples in Holding Time <u>Y</u> <u>N</u> <u>NA</u>
	Residual Chlorine Present <u>Y</u> <u>N</u> <u>NA</u>
	Cl Strips: _____
	Sample pH Acceptable <u>Y</u> <u>N</u> <u>NA</u>
	pH Strips: _____
Sulfide Present <u>Y</u> <u>N</u> <u>NA</u>	
Lead Acetate Strips: _____	

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-17	GW	Grab	12/14/21	1248			3	X
DUP12142021	GW	Grab	12/14/21	0000			3	X
EB12142021			12/14/21	1300			3	X
TREP BLANK							3	X

LAB USE ONLY:  
Lab Sample # / Comments:

001  
002  
003  
004

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used: Wet Blue Dry None

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2697759

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C

Cooler 1 Therm Corr. Temp: \_\_\_\_\_ °C

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Comments: [Signature]

Relinquished by/Company: (Signature) Matt Gray Date/Time: 12/14/21/16:20 Received by/Company: (Signature) PALE MADISON Date/Time: 12/14/21/16:20

Relinquished by/Company: (Signature) [Signature] Date/Time: 12/15/21 0745 Received by/Company: (Signature) [Signature] Date/Time: 12/15/21 0745

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

MTJL LAB USE ONLY

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: Page 18 of 20

of: 1

Client Name: WSP

**Sample Preservation Receipt Form**

Project # 40238325

Pace Analytical Services, LLC  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

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

Initial when completed:

Date/Time:


Lab Lot# of pH paper:

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

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	JG9U	JG9U	WGFU								WPFU	SP5T	ZPLC	GN
001																																	2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	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

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

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

Client Name: WSP  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

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

**WO#: 40238325**

  
 40238325

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 - 105    Type of Ice:  Blue Dry None  Samples on ice, cooling process has begun  
 Cooler Temperature: Uncorr: 1.5 / Corr: 1  
 Temp Blank Present:  yes  no    Biological Tissue is Frozen:  yes  no

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

Person examining contents:  
 Date: 12/15/21 / Initials: SKW  
 Labeled By Initials: ALJ

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+ 2CC</u>	<u>12/15/21 SKW</u>
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 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: <u>W</u>			
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>4751</u>			

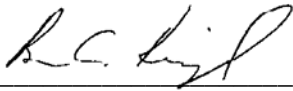
**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## ENCLOSURE B – HYDROGEOLOGIST CERTIFICATION

Monitoring Well Sampling Results – MW-17-20  
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.



01/04/2022

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

Date