



August 20, 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: Groundwater Profiling Sampling Results
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 results for groundwater profiling samples collected between July 28 and 30, 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 groundwater samples were collected in accordance with the Supplemental Site Investigation Work Plan, 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.

Between July 28 and 30, 2021, WSP oversaw the advancement of soil borings at the MW-01 and MW-09 locations for the collection of groundwater profiling samples between 35 and 62.5 feet below ground surface (ft bgs). The borings were advanced using rotasonic drilling methods and nominal 6-inch diameter drill casing. Groundwater profiling samples were collected using a discrete interval groundwater sampler attached to 2-inch diameter drill rods, which was advanced 2.5 feet beyond the drill casing for each sample interval, after which the screened interval was exposed to allow groundwater to enter the sampler. The depth to water was measured inside the sampler rods to determine the target purge volume, which was three rod volumes. Groundwater was purged from each sample interval using an electric submersible pump. For several sample intervals, the sampler purged dry prior to removing three rod volumes, and the groundwater sample was collected after allowing the interval to recharge sufficiently for sample collection.

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 (DUP072921) collected at MW-09 profiling location in the interval 35 to 37.5 ft bgs, and three trip blank samples (TRIP BLANK), which were submitted with the groundwater profiling samples.

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

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



Table 1 includes the laboratory analytical results, and Enclosure A includes the laboratory reports. Results were compared to the WDNR Enforcement Standards (ES) or Preventative Action Limits (PAL). Benzene was detected at concentrations above both the ES (5 µg/l) and PAL (0.5 µg/l) in the MW-01 profiling samples from the shallowest three intervals: 35 to 37.5 ft bgs (137 micrograms per liter [µg/l]), 40 to 42.5 ft bgs (262 µg/l), and 45 to 47.5 ft bgs (82 µg/l). Benzene was detected at concentrations above the PAL in the MW-01 profiling samples from the deepest three intervals: 50 to 52.5 ft bgs (2 µg/l), 55 to 57.5 ft bgs (2.8 µg/l), and 60 to 62.5 ft bgs (3.6 µg/l). Benzene was not detected in the MW-09 profiling samples. Other petroleum compounds associated with the released diluent material were detected in the shallow profiling samples from MW-01 at concentrations below the ES and PAL (e.g. ethylbenzene, toluene, total xylenes, cyclohexane). Bromoform, chloromethane, or bromodichloromethane were detected in several profiling samples at concentrations above the ES or PAL. These three compounds are not associated with the diluent material and are common disinfection byproducts of chlorinated tap water, which was used during drilling to control flowing sand. As a result, they are likely an artifact of the drilling process and not a reflection of groundwater conditions.

Results for the duplicate sample were consistent with the associated primary sample, and no VOCs were detected in the trip blank samples.

The groundwater profiling results were used to select screened intervals for deep monitoring wells installed at the Site, which are shown on Figure 1 (e.g. MW-01-63, screened from 58 to 63 ft bgs; MW-05-60, MW-06-60, MW-07-60, and MW-09-60; screened from 55 to 60 ft bgs).

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.

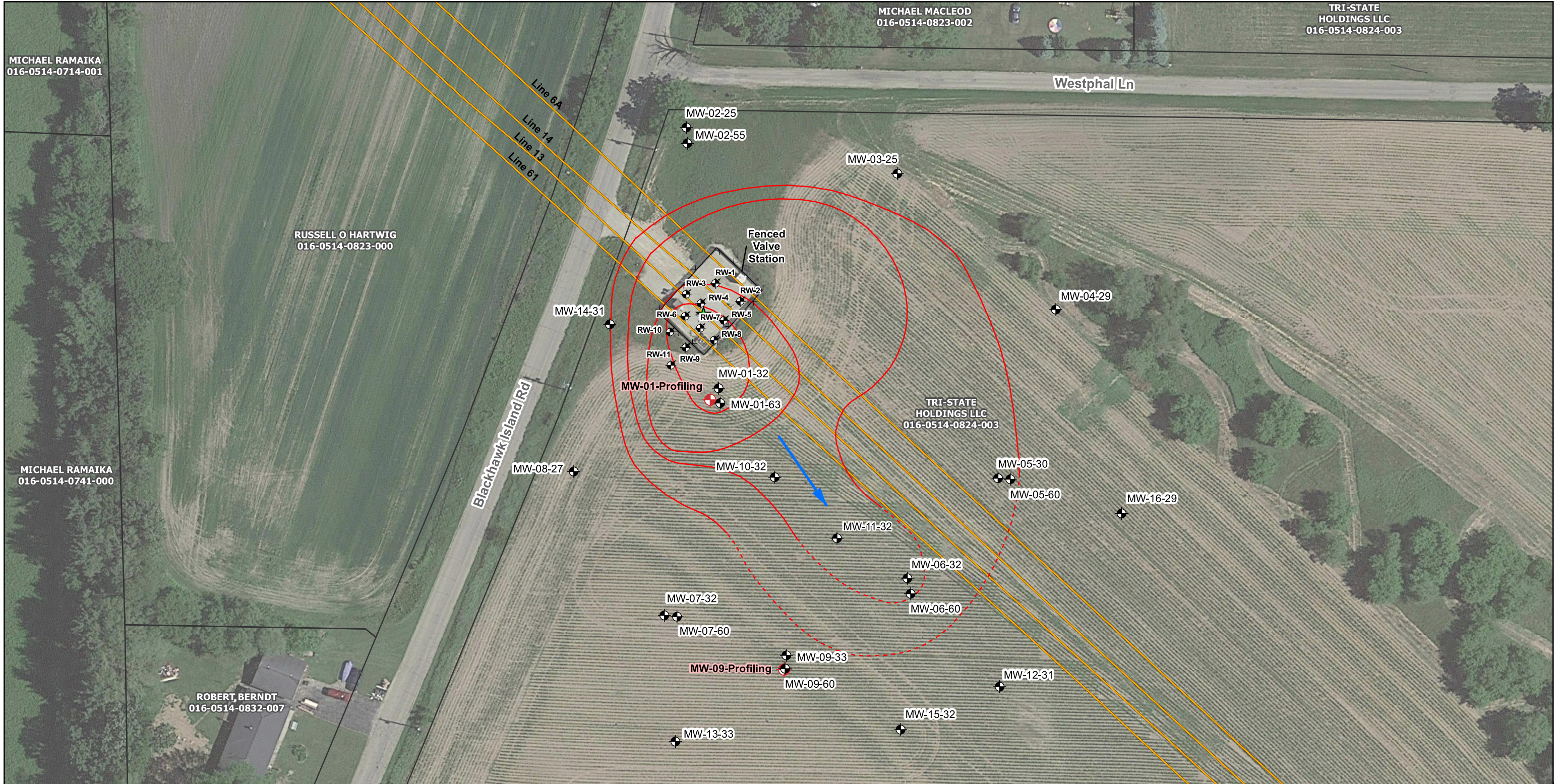
Kind regards,

Timothy A. Huff
Senior Lead Geologist

TAH :
\\10.0.199.15\job\enbridge\ft atkinson\line 13 mp 312_work plans and reports\2021-08 gw profiling results to wdnr\2021.08.17_line13 mp312_gw profiling results draft.docx

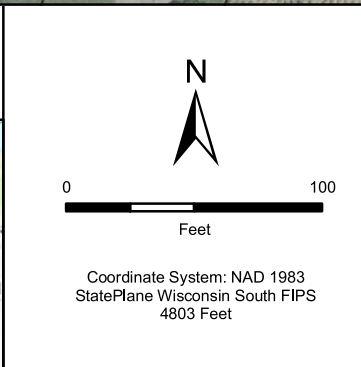
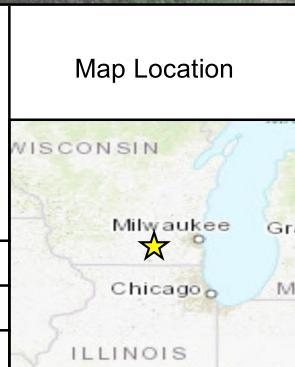
Encl.

FIGURE



ENBRIDGE

Drawn: WSP 8/17/2021
 Approved: WSP 8/17/2021
 Project #: 31401967.705



Legend

- ★ Approximate Release Location
- ⊕ Monitoring Well
- ⊕ GW Profiling Location
- ⊕ Remediation Well
- ➡ Groundwater Flow Direction
- Enbridge Pipeline
- Benzene Isoconcentration Contours (ug/l) (Dashed where inferred)
- ⬜ Fenced Valve Site
- ⬜ Property Parcels

Note:

1. Benzene isoconcentration contours developed from July/Sept 2020 temporary well sampling results and July 2021 monitoring well sampling results.
2. Well and Groundwater Profiling Locations are approximate.

FIGURE 1
 MONITORING WELL, REMEDIATION WELL, AND GROUNDWATER PROFILING LOCATIONS

LINE 13 MP 312 VALVE SITE
 FORT ATKINSON, WISCONSIN

ENBRIDGE ENERGY LIMITED PARTNERSHIP

TABLE

Table 1
Groundwater Profiling Results
Line 13 MP312 Valve Site
Fort Atkinson, Wisconsin

Location	Depth Interval (feet bgs)	Sample Date	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	m&p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes, Total (µg/L)	n-Propylbenzene (µg/L)	1,2,4-trimethylbenzene (µg/L)
Enforcement Standard (a)			5	700	800	--	--	2,000	--	480
Preventative Action Limit (a)			0.5	140	160	--	--	400	--	96
MW-01 Profiling	35 - 37.5	07/28/21	137	2.7	70.6	2.3	2.1	4.4	0.39 J	<0.45
	40 - 42.5	07/28/21	262	3.3	79.3	3.1	3	6.1	0.35 J	1.1
	45 - 47.5	07/28/21	82	1.2	27.6	1.4 J	0.91 J	2.31	<0.35	0.56 J
	50 - 52.5	07/28/21	2	<0.33	1.3	<0.7	<0.35	<0.7	<0.35	<0.45
	55 - 57.5	07/28/21	2.8	<0.33	1.4	<0.7	<0.35	<0.7	<0.35	<0.45
	60 - 62.5	07/29/21	3.6	0.34 J	1.2	<0.7	<0.35	<0.7	<0.35	<0.45
MW-09 Profiling	35 - 37.5	07/29/21	<0.3	<0.33	0.41 J	<0.7	<0.35	<0.7	<0.35	<0.45
	DUP 072921 (b)	07/29/21	<0.3	<0.33	0.36 J	<0.7	<0.35	<0.7	<0.35	<0.45
	40 - 42.5	07/29/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
	45 - 47.5	07/29/21	<0.3	<0.33	0.6 J	<0.7	<0.35	<0.7	<0.35	<0.45
	50 - 52.5	07/30/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
	55 - 57.5	07/30/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
	60 - 62.5	07/30/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
Trip Blank	--	07/28/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
	--	07/29/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45
	--	07/30/21	<0.3	<0.33	<0.29	<0.7	<0.35	<0.7	<0.35	<0.45

**Table 1
Groundwater Profiling Results
Line 13 MP312 Valve Site
Fort Atkinson, Wisconsin**

Location	Depth Interval (feet bgs)	Sample Date	Bromoform (µg/L)	Styrene (µg/L)	Cyclohexane (µg/L)	Chloromethane (µg/L)	Bromodichloro-methane (µg/L)	Methyl-tert-butyl ether (µg/L)	Methylcyclohexane (µg/L)	n-Hexane (µg/L)
Enforcement Standard (a)			4.4	100	--	30	0.6	60	--	--
Preventative Action Limit (a)			0.44	10	--	3	0.06	12	--	--
MW-01 Profiling	35 - 37.5	07/28/21	<3.8	<0.36	8.5	<1.6	<0.42	<1.1	1.7 J	<1.5
	40 - 42.5	07/28/21	<3.8	<0.36	6.1	<1.6	<0.42	2.4 J	1.6 J	2.2 J
	45 - 47.5	07/28/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	50 - 52.5	07/28/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	55 - 57.5	07/28/21	4.7 J	<0.36	<1.3	<1.6	<i>0.51 J</i>	<1.1	<1.2	<1.5
	60 - 62.5	07/29/21	<3.8	3.4	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
MW-09 Profiling	35 - 37.5	07/29/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	DUP 072921 (b)	07/29/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	40 - 42.5	07/29/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	45 - 47.5	07/29/21	<3.8	<0.36	<1.3	6.7	<0.42	<1.1	<1.2	<1.5
	50 - 52.5	07/30/21	5.2	<0.36	<1.3	<1.6	0.89 J	<1.1	<1.2	<1.5
	55 - 57.5	07/30/21	<3.8	<0.36	<1.3	3.3 J	<0.42	<1.1	<1.2	<1.5
	60 - 62.5	07/30/21	4.6 J	<0.36	<1.3	4.9 J	<0.42	<1.1	<1.2	<1.5
Trip Blank	--	07/28/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	--	07/29/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5
	--	07/30/21	<3.8	<0.36	<1.3	<1.6	<0.42	<1.1	<1.2	<1.5

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.

b/ Duplicate of sample listed above.

J = Estimated concentration at or above the Limit of Detection and below the Limit of Quantitation.

ug/L = Micrograms per liter.

ENCLOSURE A – LABORATORY ANALYTICAL RESULTS

July 30, 2021

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

RE: Project: 31401967.705 L13 MP312 VALVE S
Pace Project No.: 40230766

Dear Timothy Huff:

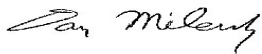
Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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: 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 L13 MP312 VALVE S

Pace Project No.: 40230766

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 L13 MP312 VALVE S

Pace Project No.: 40230766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40230766001	MW01 (35-37.5)	Water	07/28/21 11:20	07/29/21 09:15
40230766002	MW01 (40-42.5)	Water	07/28/21 13:45	07/29/21 09:15
40230766003	MW01 (45-47.5)	Water	07/28/21 15:40	07/29/21 09:15
40230766004	TRIP BLANK	Water	07/28/21 00:00	07/29/21 09:15

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 L13 MP312 VALVE S

Pace Project No.: 40230766

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40230766001	MW01 (35-37.5)	EPA 8260	LAP	68
40230766002	MW01 (40-42.5)	EPA 8260	LAP	68
40230766003	MW01 (45-47.5)	EPA 8260	LAP	68
40230766004	TRIP BLANK	EPA 8260	LAP	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 L13 MP312 VALVE S

Pace Project No.: 40230766

Sample: MW01 (35-37.5) **Lab ID: 40230766001** Collected: 07/28/21 11:20 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		07/30/21 11:33	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		07/30/21 11:33	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/30/21 11:33	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:33	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/30/21 11:33	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:33	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:33	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		07/30/21 11:33	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		07/30/21 11:33	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/30/21 11:33	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/30/21 11:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/30/21 11:33	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/30/21 11:33	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/30/21 11:33	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/30/21 11:33	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:33	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:33	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:33	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/30/21 11:33	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		07/30/21 11:33	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:33	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:33	106-43-4	
Benzene	137	ug/L	1.0	0.30	1		07/30/21 11:33	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		07/30/21 11:33	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:33	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/30/21 11:33	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/30/21 11:33	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/30/21 11:33	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:33	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/30/21 11:33	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/30/21 11:33	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:33	74-87-3	
Cyclohexane	8.5	ug/L	5.0	1.3	1		07/30/21 11:33	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/30/21 11:33	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/30/21 11:33	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/30/21 11:33	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:33	108-20-3	
Ethylbenzene	2.7	ug/L	1.0	0.33	1		07/30/21 11:33	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		07/30/21 11:33	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		07/30/21 11:33	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:33	1634-04-4	
Methylcyclohexane	1.7J	ug/L	5.0	1.2	1		07/30/21 11:33	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/30/21 11:33	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 L13 MP312 VALVE S

Pace Project No.: 40230766

Sample: MW01 (35-37.5) **Lab ID: 40230766001** Collected: 07/28/21 11:20 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/30/21 11:33	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:33	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:33	127-18-4	
Toluene	70.6	ug/L	1.0	0.29	1		07/30/21 11:33	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/30/21 11:33	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:33	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/30/21 11:33	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/30/21 11:33	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:33	10061-01-5	
m&p-Xylene	2.3	ug/L	2.0	0.70	1		07/30/21 11:33	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:33	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:33	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		07/30/21 11:33	110-54-3	
n-Propylbenzene	0.39J	ug/L	1.0	0.35	1		07/30/21 11:33	103-65-1	
o-Xylene	2.1	ug/L	1.0	0.35	1		07/30/21 11:33	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:33	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		07/30/21 11:33	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		07/30/21 11:33	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/30/21 11:33	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/30/21 11:33	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		07/30/21 11:33	2037-26-5	
4-Bromofluorobenzene (S)	113	%	70-130		1		07/30/21 11:33	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		07/30/21 11:33	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 L13 MP312 VALVE S

Pace Project No.: 40230766

Sample: MW01 (40-42.5) **Lab ID: 40230766002** Collected: 07/28/21 13:45 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		07/30/21 12:11	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 12:11	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		07/30/21 12:11	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/30/21 12:11	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 12:11	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/30/21 12:11	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		07/30/21 12:11	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		07/30/21 12:11	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		07/30/21 12:11	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		07/30/21 12:11	120-82-1	
1,2,4-Trimethylbenzene	1.1	ug/L	1.0	0.45	1		07/30/21 12:11	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/30/21 12:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/30/21 12:11	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/30/21 12:11	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/30/21 12:11	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/30/21 12:11	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 12:11	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 12:11	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		07/30/21 12:11	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/30/21 12:11	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		07/30/21 12:11	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 12:11	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 12:11	106-43-4	
Benzene	262	ug/L	1.0	0.30	1		07/30/21 12:11	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 12:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		07/30/21 12:11	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 12:11	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/30/21 12:11	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/30/21 12:11	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/30/21 12:11	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 12:11	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/30/21 12:11	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/30/21 12:11	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/30/21 12:11	74-87-3	
Cyclohexane	6.1	ug/L	5.0	1.3	1		07/30/21 12:11	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/30/21 12:11	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/30/21 12:11	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/30/21 12:11	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 12:11	108-20-3	
Ethylbenzene	3.3	ug/L	1.0	0.33	1		07/30/21 12:11	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		07/30/21 12:11	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		07/30/21 12:11	98-82-8	
Methyl-tert-butyl ether	2.4J	ug/L	5.0	1.1	1		07/30/21 12:11	1634-04-4	
Methylcyclohexane	1.6J	ug/L	5.0	1.2	1		07/30/21 12:11	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/30/21 12:11	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 L13 MP312 VALVE S
Pace Project No.: 40230766

Sample: MW01 (40-42.5) **Lab ID: 40230766002** Collected: 07/28/21 13:45 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/30/21 12:11	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/30/21 12:11	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/30/21 12:11	127-18-4	
Toluene	79.3	ug/L	1.0	0.29	1		07/30/21 12:11	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/30/21 12:11	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 12:11	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/30/21 12:11	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/30/21 12:11	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/30/21 12:11	10061-01-5	
m&p-Xylene	3.1	ug/L	2.0	0.70	1		07/30/21 12:11	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 12:11	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		07/30/21 12:11	142-82-5	
n-Hexane	2.2J	ug/L	5.0	1.5	1		07/30/21 12:11	110-54-3	
n-Propylbenzene	0.35J	ug/L	1.0	0.35	1		07/30/21 12:11	103-65-1	
o-Xylene	3.0	ug/L	1.0	0.35	1		07/30/21 12:11	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		07/30/21 12:11	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		07/30/21 12:11	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		07/30/21 12:11	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/30/21 12:11	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/30/21 12:11	10061-02-6	
Surrogates									
Toluene-d8 (S)	101	%	70-130		1		07/30/21 12:11	2037-26-5	HS,pH
4-Bromofluorobenzene (S)	110	%	70-130		1		07/30/21 12:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		07/30/21 12:11	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 L13 MP312 VALVE S

Pace Project No.: 40230766

Sample: MW01 (45-47.5) **Lab ID: 40230766003** Collected: 07/28/21 15:40 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		07/30/21 11:52	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		07/30/21 11:52	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/30/21 11:52	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:52	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/30/21 11:52	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:52	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:52	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		07/30/21 11:52	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		07/30/21 11:52	120-82-1	
1,2,4-Trimethylbenzene	0.56J	ug/L	1.0	0.45	1		07/30/21 11:52	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/30/21 11:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/30/21 11:52	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/30/21 11:52	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/30/21 11:52	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/30/21 11:52	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:52	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:52	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:52	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/30/21 11:52	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		07/30/21 11:52	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:52	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:52	106-43-4	
Benzene	81.9	ug/L	1.0	0.30	1		07/30/21 11:52	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		07/30/21 11:52	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:52	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/30/21 11:52	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/30/21 11:52	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/30/21 11:52	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:52	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/30/21 11:52	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/30/21 11:52	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:52	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		07/30/21 11:52	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/30/21 11:52	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/30/21 11:52	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/30/21 11:52	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:52	108-20-3	
Ethylbenzene	1.2	ug/L	1.0	0.33	1		07/30/21 11:52	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		07/30/21 11:52	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		07/30/21 11:52	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:52	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		07/30/21 11:52	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/30/21 11:52	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 L13 MP312 VALVE S
Pace Project No.: 40230766

Sample: MW01 (45-47.5) **Lab ID: 40230766003** Collected: 07/28/21 15:40 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/30/21 11:52	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:52	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:52	127-18-4	
Toluene	27.6	ug/L	1.0	0.29	1		07/30/21 11:52	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/30/21 11:52	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:52	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/30/21 11:52	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/30/21 11:52	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:52	10061-01-5	
m&p-Xylene	1.4J	ug/L	2.0	0.70	1		07/30/21 11:52	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:52	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:52	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		07/30/21 11:52	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:52	103-65-1	
o-Xylene	0.91J	ug/L	1.0	0.35	1		07/30/21 11:52	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:52	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		07/30/21 11:52	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		07/30/21 11:52	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/30/21 11:52	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/30/21 11:52	10061-02-6	
Surrogates									
Toluene-d8 (S)	102	%	70-130		1		07/30/21 11:52	2037-26-5	HS,pH
4-Bromofluorobenzene (S)	111	%	70-130		1		07/30/21 11:52	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		07/30/21 11:52	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 L13 MP312 VALVE S

Pace Project No.: 40230766

Sample: TRIP BLANK **Lab ID: 40230766004** Collected: 07/28/21 00:00 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		07/30/21 11:15	630-20-6	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		07/30/21 11:15	79-34-5	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		07/30/21 11:15	79-00-5	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:15	75-34-3	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		07/30/21 11:15	75-35-4	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:15	563-58-6	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:15	87-61-6	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		07/30/21 11:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		07/30/21 11:15	120-82-1	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		07/30/21 11:15	95-63-6	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		07/30/21 11:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		07/30/21 11:15	106-93-4	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		07/30/21 11:15	95-50-1	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		07/30/21 11:15	107-06-2	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		07/30/21 11:15	78-87-5	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:15	108-67-8	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:15	541-73-1	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		07/30/21 11:15	142-28-9	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		07/30/21 11:15	106-46-7	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		07/30/21 11:15	594-20-7	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:15	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		07/30/21 11:15	106-43-4	
Benzene	<0.30	ug/L	1.0	0.30	1		07/30/21 11:15	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		07/30/21 11:15	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:15	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		07/30/21 11:15	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		07/30/21 11:15	74-83-9	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		07/30/21 11:15	56-23-5	
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:15	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		07/30/21 11:15	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		07/30/21 11:15	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:15	74-87-3	
Cyclohexane	<1.3	ug/L	5.0	1.3	1		07/30/21 11:15	110-82-7	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		07/30/21 11:15	124-48-1	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		07/30/21 11:15	74-95-3	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		07/30/21 11:15	75-71-8	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:15	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		07/30/21 11:15	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		07/30/21 11:15	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		07/30/21 11:15	98-82-8	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		07/30/21 11:15	1634-04-4	
Methylcyclohexane	<1.2	ug/L	5.0	1.2	1		07/30/21 11:15	108-87-2	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		07/30/21 11:15	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 L13 MP312 VALVE S
Pace Project No.: 40230766

Sample: TRIP BLANK **Lab ID: 40230766004** Collected: 07/28/21 00:00 Received: 07/29/21 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		07/30/21 11:15	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:15	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		07/30/21 11:15	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		07/30/21 11:15	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		07/30/21 11:15	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		07/30/21 11:15	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		07/30/21 11:15	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		07/30/21 11:15	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		07/30/21 11:15	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		07/30/21 11:15	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		07/30/21 11:15	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		07/30/21 11:15	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		07/30/21 11:15	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:15	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		07/30/21 11:15	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		07/30/21 11:15	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		07/30/21 11:15	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		07/30/21 11:15	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		07/30/21 11:15	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		07/30/21 11:15	10061-02-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		07/30/21 11:15	2037-26-5	
4-Bromofluorobenzene (S)	114	%	70-130		1		07/30/21 11:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	108	%	70-130		1		07/30/21 11:15	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 L13 MP312 VALVE S
Pace Project No.: 40230766

QC Batch: 391657 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40230766001, 40230766002, 40230766003, 40230766004

METHOD BLANK: 2259375 Matrix: Water
Associated Lab Samples: 40230766001, 40230766002, 40230766003, 40230766004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	07/30/21 08:27	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	07/30/21 08:27	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	07/30/21 08:27	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	07/30/21 08:27	
1,1-Dichloroethane	ug/L	<0.30	1.0	07/30/21 08:27	
1,1-Dichloroethene	ug/L	<0.58	1.0	07/30/21 08:27	
1,1-Dichloropropene	ug/L	<0.41	1.0	07/30/21 08:27	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	07/30/21 08:27	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	07/30/21 08:27	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/30/21 08:27	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	07/30/21 08:27	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	07/30/21 08:27	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	07/30/21 08:27	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	07/30/21 08:27	
1,2-Dichloroethane	ug/L	<0.29	1.0	07/30/21 08:27	
1,2-Dichloropropane	ug/L	<0.45	1.0	07/30/21 08:27	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	07/30/21 08:27	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	07/30/21 08:27	
1,3-Dichloropropane	ug/L	<0.30	1.0	07/30/21 08:27	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	07/30/21 08:27	
2,2-Dichloropropane	ug/L	<4.2	5.0	07/30/21 08:27	
2-Chlorotoluene	ug/L	<0.89	5.0	07/30/21 08:27	
4-Chlorotoluene	ug/L	<0.89	5.0	07/30/21 08:27	
Benzene	ug/L	<0.30	1.0	07/30/21 08:27	
Bromobenzene	ug/L	<0.36	1.0	07/30/21 08:27	
Bromochloromethane	ug/L	<0.36	5.0	07/30/21 08:27	
Bromodichloromethane	ug/L	<0.42	1.0	07/30/21 08:27	
Bromoform	ug/L	<3.8	5.0	07/30/21 08:27	
Bromomethane	ug/L	<1.2	5.0	07/30/21 08:27	
Carbon tetrachloride	ug/L	<0.37	1.0	07/30/21 08:27	
Chlorobenzene	ug/L	<0.86	1.0	07/30/21 08:27	
Chloroethane	ug/L	<1.4	5.0	07/30/21 08:27	
Chloroform	ug/L	<1.2	5.0	07/30/21 08:27	
Chloromethane	ug/L	<1.6	5.0	07/30/21 08:27	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	07/30/21 08:27	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	07/30/21 08:27	
Cyclohexane	ug/L	<1.3	5.0	07/30/21 08:27	
Dibromochloromethane	ug/L	<2.6	5.0	07/30/21 08:27	
Dibromomethane	ug/L	<0.99	5.0	07/30/21 08:27	
Dichlorodifluoromethane	ug/L	<0.46	5.0	07/30/21 08:27	

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 L13 MP312 VALVE S
Pace Project No.: 40230766

METHOD BLANK: 2259375 Matrix: Water
Associated Lab Samples: 40230766001, 40230766002, 40230766003, 40230766004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	07/30/21 08:27	
Ethylbenzene	ug/L	<0.33	1.0	07/30/21 08:27	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	07/30/21 08:27	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	07/30/21 08:27	
m&p-Xylene	ug/L	<0.70	2.0	07/30/21 08:27	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	07/30/21 08:27	
Methylcyclohexane	ug/L	<1.2	5.0	07/30/21 08:27	
Methylene Chloride	ug/L	<0.32	5.0	07/30/21 08:27	
n-Butylbenzene	ug/L	<0.86	1.0	07/30/21 08:27	
n-Heptane	ug/L	<1.6	5.0	07/30/21 08:27	
n-Hexane	ug/L	<1.5	5.0	07/30/21 08:27	
n-Propylbenzene	ug/L	<0.35	1.0	07/30/21 08:27	
Naphthalene	ug/L	<1.1	5.0	07/30/21 08:27	
o-Xylene	ug/L	<0.35	1.0	07/30/21 08:27	
p-Isopropyltoluene	ug/L	<1.0	5.0	07/30/21 08:27	
sec-Butylbenzene	ug/L	<0.42	1.0	07/30/21 08:27	
Styrene	ug/L	<0.36	1.0	07/30/21 08:27	
tert-Butylbenzene	ug/L	<0.59	1.0	07/30/21 08:27	
Tetrachloroethene	ug/L	<0.41	1.0	07/30/21 08:27	
Toluene	ug/L	<0.29	1.0	07/30/21 08:27	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	07/30/21 08:27	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	07/30/21 08:27	
Trichloroethene	ug/L	<0.32	1.0	07/30/21 08:27	
Trichlorofluoromethane	ug/L	<0.42	1.0	07/30/21 08:27	
Vinyl chloride	ug/L	<0.17	1.0	07/30/21 08:27	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	07/30/21 08:27	
4-Bromofluorobenzene (S)	%	112	70-130	07/30/21 08:27	
Toluene-d8 (S)	%	102	70-130	07/30/21 08:27	

LABORATORY CONTROL SAMPLE: 2259376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	59.8	120	66-130	
1,1,2-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	55.4	111	68-132	
1,1-Dichloroethene	ug/L	50	54.0	108	85-126	
1,2,4-Trichlorobenzene	ug/L	50	46.4	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	56.1	112	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	70-130	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	70-130	
1,2-Dichloropropane	ug/L	50	52.2	104	78-125	
1,3-Dichlorobenzene	ug/L	50	52.3	105	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 L13 MP312 VALVE S
Pace Project No.: 40230766

LABORATORY CONTROL SAMPLE: 2259376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	51.8	104	70-130	
Benzene	ug/L	50	56.4	113	70-132	
Bromodichloromethane	ug/L	50	52.1	104	70-130	
Bromoform	ug/L	50	46.1	92	65-130	
Bromomethane	ug/L	50	50.5	101	44-128	
Carbon tetrachloride	ug/L	50	59.0	118	70-130	
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	54.6	109	73-137	
Chloroform	ug/L	50	55.3	111	80-122	
Chloromethane	ug/L	50	52.2	104	27-148	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Cyclohexane	ug/L	50	56.4	113	50-150	
Dibromochloromethane	ug/L	50	52.4	105	70-130	
Dichlorodifluoromethane	ug/L	50	62.1	124	22-151	
Ethylbenzene	ug/L	50	56.0	112	80-123	
Isopropylbenzene (Cumene)	ug/L	50	57.2	114	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	48.2	96	66-130	
Methylcyclohexane	ug/L	50	62.8	126	50-150	
Methylene Chloride	ug/L	50	51.6	103	70-130	
o-Xylene	ug/L	50	51.8	104	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	58.1	116	70-130	
Toluene	ug/L	50	55.7	111	80-121	
trans-1,2-Dichloroethene	ug/L	50	58.1	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	58-125	
Trichloroethene	ug/L	50	57.0	114	70-130	
Trichlorofluoromethane	ug/L	50	57.3	115	84-148	
Vinyl chloride	ug/L	50	57.4	115	63-142	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			113	70-130	
Toluene-d8 (S)	%			102	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 L13 MP312 VALVE S
Pace Project No.: 40230766

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

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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 L13 MP312 VALVE S
Pace Project No.: 40230766


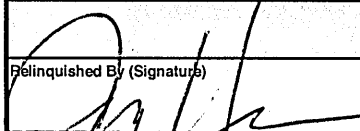
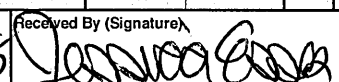
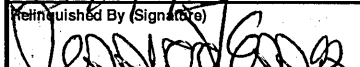
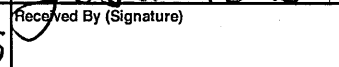
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40230766001	MW01 (35-37.5)	EPA 8260	391657		
40230766002	MW01 (40-42.5)	EPA 8260	391657		
40230766003	MW01 (45-47.5)	EPA 8260	391657		
40230766004	TRIP BLANK	EPA 8260	391657		

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

40230766

WSP USA Office Address 5957 MCKEE ROAD Suite 7 MADISON, WI 53719				Requested Analyses & Preservatives								No. 11761		WSP	
Project Name L13 MP 312 VALVESITE		WSP USA Contact Name TIM HUFF		Number of Containers VOC EPA METHOD 8260								Laboratory Name & Location PACE ANALYTICAL GREEN BAY, WI			
Project Location FT. ATKINSON, WI		WSP USA Contact E-mail TIM.HUFF @wsp.com										Laboratory Project Manager DAN MILEWSKY			
Project Number & Task 314 01967.705		WSP USA Contact Phone 571-217-6759										Requested Turn-Around-Time <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> ___ HR			
Sampler(s) Name(s) CRAIG MEGNA		Sampler(s) Signature(s) 										Sample Comments			
Sample Identification	Matrix	Collection Start*		Collection Stop*		Number of Containers									
		Date	Time	Date	Time										
001 MW01 (35-37.5)	AQ	7-28-21	1120			3	24 HR TAT								
002 MW01 (40-42.5)	↓	↓	1345			3									
003 MW01 (45-47.5)	↓	↓	1540			3									
004 TRIP BLANK						2									
Relinquished By (Signature) 		Date	Time	Received By (Signature) 		Date	Time	Shipment Method		Tracking Number(s)					
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)

CS Logistics 7/29/21 0915  7/29/21 0915

Sample Preservation Receipt Form

Client Name: WSP USA

Project # 40230766

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																W															2.5 / 5 / 10
002																W															2.5 / 5 / 10
003																W															2.5 / 5 / 10
004																W															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

7/29/21
AW

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			



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

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

Sample Condition Upon Receipt Form (SCUR)

Client Name: WSP USA

Project #: _____
WO# : 40230766

 40230766

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

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 - 107 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 /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: 7/29/21 /Initials: AW
 Labeled By Initials: AW

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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>7/29/21 09:15</u>	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>467</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

August 02, 2021

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

RE: Project: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Dear Timothy Huff:

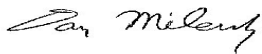
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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: 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: LN13 MP312 VALVE SITE

Pace Project No.: 40230843

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: LN13 MP312 VALVE SITE

Pace Project No.: 40230843

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40230843001	MW-01 (50-52.5)	Water	07/28/21 17:00	07/30/21 08:30
40230843002	MW-01 (55-57.5)	Water	07/28/21 18:20	07/30/21 08:30
40230843003	MW-01 (60-62.5)	Water	07/29/21 08:10	07/30/21 08:30
40230843004	MW-09 (35-37.25)	Water	07/29/21 15:10	07/30/21 08:30
40230843005	DUP 072921	Water	07/29/21 00:00	07/30/21 08:30
40230843006	TRIP BLANK	Water	07/29/21 00:00	07/30/21 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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40230843001	MW-01 (50-52.5)	EPA 8260	LAP	68
40230843002	MW-01 (55-57.5)	EPA 8260	LAP	68
40230843003	MW-01 (60-62.5)	EPA 8260	LAP	68
40230843004	MW-09 (35-37.25)	EPA 8260	LAP	68
40230843005	DUP 072921	EPA 8260	LAP	68
40230843006	TRIP BLANK	EPA 8260	LAP	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Sample: MW-01 (50-52.5) **Lab ID: 40230843001** Collected: 07/28/21 17:00 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 13:30	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:30	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 13:30	127-18-4	
Toluene	1.3	ug/L	1.0	0.29	1		08/02/21 13:30	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 13:30	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 13:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 13:30	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 13:30	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:30	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 13:30	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 13:30	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 13:30	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 13:30	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:30	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:30	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 13:30	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 13:30	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 13:30	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 13:30	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 13:30	10061-02-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		08/02/21 13:30	2037-26-5	pH
4-Bromofluorobenzene (S)	101	%	70-130		1		08/02/21 13:30	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		08/02/21 13:30	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: LN13 MP312 VALVE SITE

Pace Project No.: 40230843

Sample: MW-01 (55-57.5) **Lab ID: 40230843002** Collected: 07/28/21 18:20 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 13:50	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:50	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 13:50	127-18-4	
Toluene	1.4	ug/L	1.0	0.29	1		08/02/21 13:50	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 13:50	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 13:50	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 13:50	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 13:50	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:50	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 13:50	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 13:50	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 13:50	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 13:50	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:50	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:50	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 13:50	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 13:50	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 13:50	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 13:50	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 13:50	10061-02-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		08/02/21 13:50	2037-26-5	pH
4-Bromofluorobenzene (S)	98	%	70-130		1		08/02/21 13:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130		1		08/02/21 13:50	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Sample: MW-01 (60-62.5) **Lab ID: 40230843003** Collected: 07/29/21 08:10 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 15:27	91-20-3	
Styrene	3.4	ug/L	1.0	0.36	1		08/02/21 15:27	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 15:27	127-18-4	
Toluene	1.2	ug/L	1.0	0.29	1		08/02/21 15:27	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 15:27	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 15:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 15:27	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 15:27	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 15:27	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 15:27	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 15:27	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 15:27	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 15:27	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 15:27	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 15:27	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 15:27	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 15:27	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 15:27	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 15:27	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 15:27	10061-02-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		08/02/21 15:27	2037-26-5	HS,pH
4-Bromofluorobenzene (S)	98	%	70-130		1		08/02/21 15:27	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		08/02/21 15:27	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Sample: MW-09 (35-37.25) **Lab ID: 40230843004** Collected: 07/29/21 15:10 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 14:29	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 14:29	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 14:29	127-18-4	
Toluene	0.41J	ug/L	1.0	0.29	1		08/02/21 14:29	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 14:29	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 14:29	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 14:29	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 14:29	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 14:29	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 14:29	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 14:29	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 14:29	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 14:29	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 14:29	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 14:29	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 14:29	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 14:29	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 14:29	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 14:29	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 14:29	10061-02-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		08/02/21 14:29	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		08/02/21 14:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		08/02/21 14:29	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Sample: DUP 072921 **Lab ID: 40230843005** Collected: 07/29/21 00:00 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 14:09	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 14:09	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 14:09	127-18-4	
Toluene	0.36J	ug/L	1.0	0.29	1		08/02/21 14:09	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 14:09	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 14:09	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 14:09	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 14:09	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 14:09	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 14:09	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 14:09	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 14:09	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 14:09	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 14:09	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 14:09	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 14:09	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 14:09	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 14:09	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 14:09	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 14:09	10061-02-6	
Surrogates									
Toluene-d8 (S)	96	%	70-130		1		08/02/21 14:09	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		08/02/21 14:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		08/02/21 14:09	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

Sample: TRIP BLANK **Lab ID: 40230843006** Collected: 07/29/21 00:00 Received: 07/30/21 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 12:32	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:32	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 12:32	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 12:32	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 12:32	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 12:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 12:32	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 12:32	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:32	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 12:32	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 12:32	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 12:32	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 12:32	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:32	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:32	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 12:32	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 12:32	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 12:32	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 12:32	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 12:32	10061-02-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		08/02/21 12:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		08/02/21 12:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		08/02/21 12:32	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

QC Batch: 391834 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40230843001, 40230843002, 40230843003, 40230843004, 40230843005, 40230843006

METHOD BLANK: 2260700 Matrix: Water
Associated Lab Samples: 40230843001, 40230843002, 40230843003, 40230843004, 40230843005, 40230843006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	08/02/21 10:35	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	08/02/21 10:35	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	08/02/21 10:35	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	08/02/21 10:35	
1,1-Dichloroethane	ug/L	<0.30	1.0	08/02/21 10:35	
1,1-Dichloroethene	ug/L	<0.58	1.0	08/02/21 10:35	
1,1-Dichloropropene	ug/L	<0.41	1.0	08/02/21 10:35	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	08/02/21 10:35	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	08/02/21 10:35	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/02/21 10:35	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	08/02/21 10:35	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	08/02/21 10:35	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	08/02/21 10:35	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	08/02/21 10:35	
1,2-Dichloroethane	ug/L	<0.29	1.0	08/02/21 10:35	
1,2-Dichloropropane	ug/L	<0.45	1.0	08/02/21 10:35	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	08/02/21 10:35	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	08/02/21 10:35	
1,3-Dichloropropane	ug/L	<0.30	1.0	08/02/21 10:35	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	08/02/21 10:35	
2,2-Dichloropropane	ug/L	<4.2	5.0	08/02/21 10:35	
2-Chlorotoluene	ug/L	<0.89	5.0	08/02/21 10:35	
4-Chlorotoluene	ug/L	<0.89	5.0	08/02/21 10:35	
Benzene	ug/L	<0.30	1.0	08/02/21 10:35	
Bromobenzene	ug/L	<0.36	1.0	08/02/21 10:35	
Bromochloromethane	ug/L	<0.36	5.0	08/02/21 10:35	
Bromodichloromethane	ug/L	<0.42	1.0	08/02/21 10:35	
Bromoform	ug/L	<3.8	5.0	08/02/21 10:35	
Bromomethane	ug/L	<1.2	5.0	08/02/21 10:35	
Carbon tetrachloride	ug/L	<0.37	1.0	08/02/21 10:35	
Chlorobenzene	ug/L	<0.86	1.0	08/02/21 10:35	
Chloroethane	ug/L	<1.4	5.0	08/02/21 10:35	
Chloroform	ug/L	<1.2	5.0	08/02/21 10:35	
Chloromethane	ug/L	<1.6	5.0	08/02/21 10:35	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/02/21 10:35	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	08/02/21 10:35	
Cyclohexane	ug/L	<1.3	5.0	08/02/21 10:35	
Dibromochloromethane	ug/L	<2.6	5.0	08/02/21 10:35	
Dibromomethane	ug/L	<0.99	5.0	08/02/21 10:35	
Dichlorodifluoromethane	ug/L	<0.46	5.0	08/02/21 10:35	

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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

METHOD BLANK: 2260700 Matrix: Water
Associated Lab Samples: 40230843001, 40230843002, 40230843003, 40230843004, 40230843005, 40230843006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	08/02/21 10:35	
Ethylbenzene	ug/L	<0.33	1.0	08/02/21 10:35	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	08/02/21 10:35	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	08/02/21 10:35	
m&p-Xylene	ug/L	<0.70	2.0	08/02/21 10:35	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	08/02/21 10:35	
Methylcyclohexane	ug/L	<1.2	5.0	08/02/21 10:35	
Methylene Chloride	ug/L	<0.32	5.0	08/02/21 10:35	
n-Butylbenzene	ug/L	<0.86	1.0	08/02/21 10:35	
n-Heptane	ug/L	<1.6	5.0	08/02/21 10:35	
n-Hexane	ug/L	<1.5	5.0	08/02/21 10:35	
n-Propylbenzene	ug/L	<0.35	1.0	08/02/21 10:35	
Naphthalene	ug/L	<1.1	5.0	08/02/21 10:35	
o-Xylene	ug/L	<0.35	1.0	08/02/21 10:35	
p-Isopropyltoluene	ug/L	<1.0	5.0	08/02/21 10:35	
sec-Butylbenzene	ug/L	<0.42	1.0	08/02/21 10:35	
Styrene	ug/L	<0.36	1.0	08/02/21 10:35	
tert-Butylbenzene	ug/L	<0.59	1.0	08/02/21 10:35	
Tetrachloroethene	ug/L	<0.41	1.0	08/02/21 10:35	
Toluene	ug/L	<0.29	1.0	08/02/21 10:35	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/02/21 10:35	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	08/02/21 10:35	
Trichloroethene	ug/L	<0.32	1.0	08/02/21 10:35	
Trichlorofluoromethane	ug/L	<0.42	1.0	08/02/21 10:35	
Vinyl chloride	ug/L	<0.17	1.0	08/02/21 10:35	
1,2-Dichlorobenzene-d4 (S)	%	103	70-130	08/02/21 10:35	
4-Bromofluorobenzene (S)	%	98	70-130	08/02/21 10:35	
Toluene-d8 (S)	%	98	70-130	08/02/21 10:35	

LABORATORY CONTROL SAMPLE: 2260701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.4	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	104	66-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	59.1	118	68-132	
1,1-Dichloroethene	ug/L	50	55.1	110	85-126	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	98	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	53.0	106	70-130	
1,2-Dichloropropane	ug/L	50	56.1	112	78-125	
1,3-Dichlorobenzene	ug/L	50	48.3	97	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: LN13 MP312 VALVE SITE
Pace Project No.: 40230843

LABORATORY CONTROL SAMPLE: 2260701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	
Benzene	ug/L	50	56.2	112	70-132	
Bromodichloromethane	ug/L	50	56.9	114	70-130	
Bromoform	ug/L	50	48.4	97	65-130	
Bromomethane	ug/L	50	36.5	73	44-128	
Carbon tetrachloride	ug/L	50	57.2	114	70-130	
Chlorobenzene	ug/L	50	53.4	107	70-130	
Chloroethane	ug/L	50	49.7	99	73-137	
Chloroform	ug/L	50	55.9	112	80-122	
Chloromethane	ug/L	50	59.5	119	27-148	
cis-1,2-Dichloroethene	ug/L	50	54.6	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Cyclohexane	ug/L	50	55.6	111	50-150	
Dibromochloromethane	ug/L	50	53.4	107	70-130	
Dichlorodifluoromethane	ug/L	50	50.6	101	22-151	
Ethylbenzene	ug/L	50	53.1	106	80-123	
Isopropylbenzene (Cumene)	ug/L	50	54.5	109	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	52.3	105	66-130	
Methylcyclohexane	ug/L	50	52.5	105	50-150	
Methylene Chloride	ug/L	50	52.0	104	70-130	
o-Xylene	ug/L	50	52.3	105	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	52.0	104	70-130	
Toluene	ug/L	50	53.0	106	80-121	
trans-1,2-Dichloroethene	ug/L	50	56.1	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.4	91	58-125	
Trichloroethene	ug/L	50	54.2	108	70-130	
Trichlorofluoromethane	ug/L	50	51.6	103	84-148	
Vinyl chloride	ug/L	50	61.2	122	63-142	
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	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: LN13 MP312 VALVE SITE

Pace Project No.: 40230843

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

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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: LN13 MP312 VALVE SITE


Pace Project No.: 40230843

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40230843001	MW-01 (50-52.5)	EPA 8260	391834		
40230843002	MW-01 (55-57.5)	EPA 8260	391834		
40230843003	MW-01 (60-62.5)	EPA 8260	391834		
40230843004	MW-09 (35-37.25)	EPA 8260	391834		
40230843005	DUP 072921	EPA 8260	391834		
40230843006	TRIP BLANK	EPA 8260	391834		


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 USA Office Address Madison, WI				Requested Analyses & Preservatives								No. 11729		WSP	
Project Name LN13 MP312 Valve Site				WSP USA Contact Name Tim Huff / Brian Kimpel								Laboratory Name & Location PACE Analytical Green Bay, WI			
Project Location Fl. Atkinson, WI				WSP USA Contact E-mail Tim.Huff@wsp.com / Brian.Kimpel@wsp.com								Laboratory Project Manager 40230843			
Project Number & Task				WSP USA Contact Phone (571) 217-6759 / (815) 871-5556								Requested Turn-Around-Time <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> ___ HR			
Sampler(s) Name(s) Matt Grady				Sampler(s) Signature(s) 								Sample Comments			
Sample Identification		Matrix	Collection Start*		Collection Stop*		Number of Containers								
			Date	Time	Date	Time									
MW-01 (50-52.5)		AQ	07/28/21	1700	07/28/21	1700	3	X							
MW-01 (55-57.5)		AQ	07/28/21	1820	07/28/21	1820	3	X							
MW-01 (60-62.5)		AQ	07/29/21	0810	07/29/21	0810	3	X							
MW-09 (35-37.25)		AQ	07/29/21	1510	07/29/21	1510	3	X							
Dup 072921		AQ	07/29/21	1510	07/29/21	1510	3	X							
TRDP BLANK			-	-	-	-	2	X							
[Large scribble]															
[Large scribble]															
Relinquished By (Signature)		Date	Time	Received By (Signature)				Date	Time	Shipment Method		Tracking Number(s)			
Matt Grady		07/29/21	1730	PACE Analytical/Madison				07/29/21	1730						
Relinquished By (Signature)		Date	Time	Received By (Signature)				Date	Time	Number of Packages		Custody Seal Number(s)			
CS Logistics		7/30/21	0830	Beusen Pace				7/29/21	0830						

*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)

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

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: WSP

WO#: 40230843



40230843

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

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>7/30/21</u> /Initials: <u>MB</u> Labeled By Initials: _____

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>project #</u> <u>MB 7/30/21</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input 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>4167</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

August 03, 2021

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

RE: Project: 31401967.705 LN13 MP312
Pace Project No.: 40230923

Dear Timothy Huff:

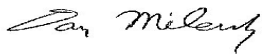
Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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: 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 LN13 MP312

Pace Project No.: 40230923

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 LN13 MP312
Pace Project No.: 40230923

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40230923001	MW-9 (40-42.5)	Water	07/29/21 16:30	07/31/21 11:40
40230923002	MW-9 (45-47.5)	Water	07/29/21 18:00	07/31/21 11:40
40230923003	MW-9 (50-52.5)	Water	07/30/21 08:30	07/31/21 11:40
40230923004	MW-9 (55-57.5)	Water	07/30/21 10:00	07/31/21 11:40
40230923005	MW-9 (60-62.5)	Water	07/30/21 11:40	07/31/21 11:40
40230923006	TRIP BLANK	Water	07/30/21 00:00	07/31/21 11:40

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 LN13 MP312
Pace Project No.: 40230923

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40230923001	MW-9 (40-42.5)	EPA 8260	LAP	68
40230923002	MW-9 (45-47.5)	EPA 8260	LAP	68
40230923003	MW-9 (50-52.5)	EPA 8260	LAP	68
40230923004	MW-9 (55-57.5)	EPA 8260	LAP	68
40230923005	MW-9 (60-62.5)	EPA 8260	LAP	68
40230923006	TRIP BLANK	EPA 8260	LAP	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 LN13 MP312

Pace Project No.: 40230923

Sample: MW-9 (40-42.5) **Lab ID: 40230923001** Collected: 07/29/21 16:30 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 12:42	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:42	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 12:42	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 12:42	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 12:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 12:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 12:42	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 12:42	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:42	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 12:42	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 12:42	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 12:42	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 12:42	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:42	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:42	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 12:42	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 12:42	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 12:42	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 12:42	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 12:42	10061-02-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		08/02/21 12:42	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		08/02/21 12:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		08/02/21 12:42	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 LN13 MP312

Pace Project No.: 40230923

Sample: MW-9 (45-47.5) **Lab ID: 40230923002** Collected: 07/29/21 18:00 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 13:01	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:01	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 13:01	127-18-4	
Toluene	0.60J	ug/L	1.0	0.29	1		08/02/21 13:01	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 13:01	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 13:01	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 13:01	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 13:01	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:01	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 13:01	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 13:01	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 13:01	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 13:01	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:01	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:01	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 13:01	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 13:01	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 13:01	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 13:01	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 13:01	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		08/02/21 13:01	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		08/02/21 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		08/02/21 13:01	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 LN13 MP312

Pace Project No.: 40230923

Sample: MW-9 (50-52.5) **Lab ID: 40230923003** Collected: 07/30/21 08:30 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 13:20	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:20	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 13:20	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 13:20	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 13:20	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 13:20	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 13:20	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 13:20	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:20	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 13:20	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 13:20	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 13:20	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 13:20	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:20	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:20	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 13:20	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 13:20	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 13:20	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 13:20	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 13:20	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		08/02/21 13:20	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		08/02/21 13:20	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		08/02/21 13:20	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 LN13 MP312

Pace Project No.: 40230923

Sample: MW-9 (55-57.5) **Lab ID: 40230923004** Collected: 07/30/21 10:00 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 13:38	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:38	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 13:38	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 13:38	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 13:38	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 13:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 13:38	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 13:38	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 13:38	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 13:38	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 13:38	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 13:38	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 13:38	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:38	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 13:38	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 13:38	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 13:38	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 13:38	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 13:38	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 13:38	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		08/02/21 13:38	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		08/02/21 13:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		08/02/21 13:38	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 LN13 MP312

Pace Project No.: 40230923

Sample: MW-9 (60-62.5) **Lab ID: 40230923005** Collected: 07/30/21 11:40 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 12:23	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:23	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 12:23	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 12:23	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 12:23	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 12:23	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 12:23	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 12:23	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 12:23	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 12:23	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 12:23	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 12:23	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 12:23	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:23	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 12:23	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 12:23	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 12:23	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 12:23	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 12:23	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 12:23	10061-02-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		08/02/21 12:23	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		08/02/21 12:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		08/02/21 12:23	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 LN13 MP312

Pace Project No.: 40230923

Sample: TRIP BLANK **Lab ID: 40230923006** Collected: 07/30/21 00:00 Received: 07/31/21 11:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Naphthalene	<1.1	ug/L	5.0	1.1	1		08/02/21 15:12	91-20-3	
Styrene	<0.36	ug/L	1.0	0.36	1		08/02/21 15:12	100-42-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		08/02/21 15:12	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		08/02/21 15:12	108-88-3	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		08/02/21 15:12	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		08/02/21 15:12	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/02/21 15:12	75-01-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		08/02/21 15:12	156-59-2	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		08/02/21 15:12	10061-01-5	
m&p-Xylene	<0.70	ug/L	2.0	0.70	1		08/02/21 15:12	179601-23-1	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		08/02/21 15:12	104-51-8	
n-Heptane	<1.6	ug/L	5.0	1.6	1		08/02/21 15:12	142-82-5	
n-Hexane	<1.5	ug/L	5.0	1.5	1		08/02/21 15:12	110-54-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		08/02/21 15:12	103-65-1	
o-Xylene	<0.35	ug/L	1.0	0.35	1		08/02/21 15:12	95-47-6	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		08/02/21 15:12	99-87-6	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		08/02/21 15:12	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		08/02/21 15:12	98-06-6	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		08/02/21 15:12	156-60-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		08/02/21 15:12	10061-02-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		08/02/21 15:12	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		08/02/21 15:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		08/02/21 15:12	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 LN13 MP312

Pace Project No.: 40230923

QC Batch: 391799

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV Oxygenates

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40230923001, 40230923002, 40230923003, 40230923004, 40230923005, 40230923006

METHOD BLANK: 2260582

Matrix: Water

Associated Lab Samples: 40230923001, 40230923002, 40230923003, 40230923004, 40230923005, 40230923006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	08/02/21 11:08	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	08/02/21 11:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	08/02/21 11:08	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	08/02/21 11:08	
1,1-Dichloroethane	ug/L	<0.30	1.0	08/02/21 11:08	
1,1-Dichloroethene	ug/L	<0.58	1.0	08/02/21 11:08	
1,1-Dichloropropene	ug/L	<0.41	1.0	08/02/21 11:08	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	08/02/21 11:08	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	08/02/21 11:08	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/02/21 11:08	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	08/02/21 11:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	08/02/21 11:08	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	08/02/21 11:08	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	08/02/21 11:08	
1,2-Dichloroethane	ug/L	<0.29	1.0	08/02/21 11:08	
1,2-Dichloropropane	ug/L	<0.45	1.0	08/02/21 11:08	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	08/02/21 11:08	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	08/02/21 11:08	
1,3-Dichloropropane	ug/L	<0.30	1.0	08/02/21 11:08	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	08/02/21 11:08	
2,2-Dichloropropane	ug/L	<4.2	5.0	08/02/21 11:08	
2-Chlorotoluene	ug/L	<0.89	5.0	08/02/21 11:08	
4-Chlorotoluene	ug/L	<0.89	5.0	08/02/21 11:08	
Benzene	ug/L	<0.30	1.0	08/02/21 11:08	
Bromobenzene	ug/L	<0.36	1.0	08/02/21 11:08	
Bromochloromethane	ug/L	<0.36	5.0	08/02/21 11:08	
Bromodichloromethane	ug/L	<0.42	1.0	08/02/21 11:08	
Bromoform	ug/L	<3.8	5.0	08/02/21 11:08	
Bromomethane	ug/L	<1.2	5.0	08/02/21 11:08	
Carbon tetrachloride	ug/L	<0.37	1.0	08/02/21 11:08	
Chlorobenzene	ug/L	<0.86	1.0	08/02/21 11:08	
Chloroethane	ug/L	<1.4	5.0	08/02/21 11:08	
Chloroform	ug/L	<1.2	5.0	08/02/21 11:08	
Chloromethane	ug/L	<1.6	5.0	08/02/21 11:08	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	08/02/21 11:08	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	08/02/21 11:08	
Cyclohexane	ug/L	<1.3	5.0	08/02/21 11:08	
Dibromochloromethane	ug/L	<2.6	5.0	08/02/21 11:08	
Dibromomethane	ug/L	<0.99	5.0	08/02/21 11:08	
Dichlorodifluoromethane	ug/L	<0.46	5.0	08/02/21 11:08	

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 LN13 MP312

Pace Project No.: 40230923

METHOD BLANK: 2260582

Matrix: Water

Associated Lab Samples: 40230923001, 40230923002, 40230923003, 40230923004, 40230923005, 40230923006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.1	5.0	08/02/21 11:08	
Ethylbenzene	ug/L	<0.33	1.0	08/02/21 11:08	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	08/02/21 11:08	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	08/02/21 11:08	
m&p-Xylene	ug/L	<0.70	2.0	08/02/21 11:08	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	08/02/21 11:08	
Methylcyclohexane	ug/L	<1.2	5.0	08/02/21 11:08	
Methylene Chloride	ug/L	<0.32	5.0	08/02/21 11:08	
n-Butylbenzene	ug/L	<0.86	1.0	08/02/21 11:08	
n-Heptane	ug/L	<1.6	5.0	08/02/21 11:08	
n-Hexane	ug/L	<1.5	5.0	08/02/21 11:08	
n-Propylbenzene	ug/L	<0.35	1.0	08/02/21 11:08	
Naphthalene	ug/L	<1.1	5.0	08/02/21 11:08	
o-Xylene	ug/L	<0.35	1.0	08/02/21 11:08	
p-Isopropyltoluene	ug/L	<1.0	5.0	08/02/21 11:08	
sec-Butylbenzene	ug/L	<0.42	1.0	08/02/21 11:08	
Styrene	ug/L	<0.36	1.0	08/02/21 11:08	
tert-Butylbenzene	ug/L	<0.59	1.0	08/02/21 11:08	
Tetrachloroethene	ug/L	<0.41	1.0	08/02/21 11:08	
Toluene	ug/L	<0.29	1.0	08/02/21 11:08	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	08/02/21 11:08	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	08/02/21 11:08	
Trichloroethene	ug/L	<0.32	1.0	08/02/21 11:08	
Trichlorofluoromethane	ug/L	<0.42	1.0	08/02/21 11:08	
Vinyl chloride	ug/L	<0.17	1.0	08/02/21 11:08	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130	08/02/21 11:08	
4-Bromofluorobenzene (S)	%	113	70-130	08/02/21 11:08	
Toluene-d8 (S)	%	101	70-130	08/02/21 11:08	

LABORATORY CONTROL SAMPLE: 2260583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.9	120	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	61.7	123	66-130	
1,1,2-Trichloroethane	ug/L	50	55.3	111	70-130	
1,1-Dichloroethane	ug/L	50	57.7	115	68-132	
1,1-Dichloroethene	ug/L	50	48.4	97	85-126	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	59.6	119	51-126	
1,2-Dibromoethane (EDB)	ug/L	50	55.5	111	70-130	
1,2-Dichlorobenzene	ug/L	50	54.1	108	70-130	
1,2-Dichloroethane	ug/L	50	50.9	102	70-130	
1,2-Dichloropropane	ug/L	50	53.1	106	78-125	
1,3-Dichlorobenzene	ug/L	50	56.2	112	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 LN13 MP312

Pace Project No.: 40230923

LABORATORY CONTROL SAMPLE: 2260583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	55.4	111	70-130	
Benzene	ug/L	50	58.9	118	70-132	
Bromodichloromethane	ug/L	50	53.2	106	70-130	
Bromoform	ug/L	50	46.1	92	65-130	
Bromomethane	ug/L	50	38.9	78	44-128	
Carbon tetrachloride	ug/L	50	62.5	125	70-130	
Chlorobenzene	ug/L	50	56.2	112	70-130	
Chloroethane	ug/L	50	43.4	87	73-137	
Chloroform	ug/L	50	57.2	114	80-122	
Chloromethane	ug/L	50	48.4	97	27-148	
cis-1,2-Dichloroethene	ug/L	50	55.4	111	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Cyclohexane	ug/L	50	58.5	117	50-150	
Dibromochloromethane	ug/L	50	54.9	110	70-130	
Dichlorodifluoromethane	ug/L	50	61.4	123	22-151	
Ethylbenzene	ug/L	50	57.7	115	80-123	
Isopropylbenzene (Cumene)	ug/L	50	59.7	119	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	49.4	99	66-130	
Methylcyclohexane	ug/L	50	67.6	135	50-150	
Methylene Chloride	ug/L	50	56.3	113	70-130	
o-Xylene	ug/L	50	53.2	106	70-130	
Styrene	ug/L	50	54.0	108	70-130	
Tetrachloroethene	ug/L	50	60.0	120	70-130	
Toluene	ug/L	50	58.3	117	80-121	
trans-1,2-Dichloroethene	ug/L	50	62.8	126	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	58-125	
Trichloroethene	ug/L	50	59.1	118	70-130	
Trichlorofluoromethane	ug/L	50	50.0	100	84-148	
Vinyl chloride	ug/L	50	52.4	105	63-142	
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			114	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2260584 2260585

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40230923005 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.30	50	50	59.2	59.3	118	119	70-130	0	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	59.4	59.1	119	118	66-130	0	20		
1,1,2-Trichloroethane	ug/L	<0.34	50	50	53.5	52.4	107	105	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.30	50	50	55.3	55.1	111	110	68-132	0	20		
1,1-Dichloroethene	ug/L	<0.58	50	50	47.1	48.2	94	96	76-132	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.8	51.3	98	103	70-130	5	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.

QUALIFIERS

Project: 31401967.705 LN13 MP312

Pace Project No.: 40230923

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

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 LN13 MP312

Pace Project No.: 40230923

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40230923001	MW-9 (40-42.5)	EPA 8260	391799		
40230923002	MW-9 (45-47.5)	EPA 8260	391799		
40230923003	MW-9 (50-52.5)	EPA 8260	391799		
40230923004	MW-9 (55-57.5)	EPA 8260	391799		
40230923005	MW-9 (60-62.5)	EPA 8260	391799		
40230923006	TRIP BLANK	EPA 8260	391799		

REPORT OF LABORATORY ANALYSIS

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

(Please Print Clearly)

Company Name: **WSP**
 Branch/Location: **Madison, WI**
 Project Contact: **Tim Hutt**
 Phone: **(571) 217-6759**
 Project Number: **31401967.705**
 Project Name: **LN13 MP312**
 Project State: **WISCONSIN**
 Sampled By (Print): **Matt Gray**
 Sampled By (Sign):



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

40230923

CHAIN OF CUSTODY

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

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

Y/N	Pick Letter	Analyses Requested
	B	VOC 8260

Quote #: _____
 Mail To Contact: **Tim Hutt**
 Mail To Company: **WSP**
 Mail To Address: **Tim.Hutt@wsp.com**
 Invoice To Contact: **Tim Hutt**
 Invoice To Company: **WSP**
 Invoice To Address: **Tim.Hutt@wsp.com**
 Invoice To Phone: _____

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	MW-9(40-42.5)	07/29/21	1630	GW	X		
002	MW-9(45-47.5)	07/29/21	1800	GW	X		
003	MW-9(50-52.5)	07/30/21	0830	GW	X		
004	MW-9(55-57.5)	07/30/21	1000	GW	X		
005	MW-9(60-62.5)	07/30/21	1140	GW	X		
006	TREP BLANK						

MS/MSD

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

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

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: **Matt Gray** Date/Time: **07/30/21/1500**
 Relinquished By: **CS Logistics** Date/Time: **7/31/21 1140**
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: **PACE MADISON** Date/Time: **07/30/21/1500**
 Received By: **[Signature]** Date/Time: **7/31/1140**
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. **40230923**
 Receipt Temp = _____ °C
 Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

Sample Preservation Receipt Form

UC
7/31/21

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

Client Name: WSP

Project # 4023093

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): 40230923


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
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

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: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: WSP Project #: _____
WO#: **40230923**
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



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 - 102 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: Uncorr: 3 ICorr: 0
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 7/3/21 / Initials: FL
 Labeled By Initials: MP

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input 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>4167</u>		

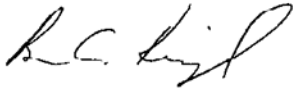
Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

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

ENCLOSURE B – HYDROGEOLOGIST CERTIFICATION

Groundwater Profiling Sampling Results
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.



8/20/2021

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

Date