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Our Reference
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Shelly Billingsley
City of Kenosha
Director of Public Works
625 52nd Street, Room 305
Kenosha, Wisconsin 53140

November 2019 Groundwater Sampling Summary
Former Mankowski Property, 2600 50th Street, Kenosha, Wisconsin
BRRTS# 02-30-554934

Dear Ms. Billlingsley;

AECOM conducted a semi-annual groundwater sampling event on November 7th and 8th 2019, as part of the groundwater monitoring plan for 2018 and 2019 at the former Mankowski property (Property). The sampling was conducted as described in Task Order 125-051418 authorized by the City of Kenosha (May 15, 2018). The purpose of this letter is to transmit the results of the November 2019 sampling event.

Site History

The Property (parcel number 09-222-36-134-003) is approximately 4 acres located north of 50th Street and west of 26th Avenue. The property was formerly part of a larger parcel previously owned by the Chrysler Corporation. The property is bounded to the north by an elementary school and residential properties to the east, south and west. The site location is depicted in Figure 1.

The Property was the subject of a number of investigations and several focused remedial actions. After confirmatory soil borings with groundwater sampling indicated that contamination remained despite the remedial action, the WDNR conducted further investigation which identified several areas of chlorinated volatile organic compound impacts in the vadose zone for remediation. Soil treatment and removal in these areas was conducted in 2017. Groundwater monitoring is being conducted to evaluate if the groundwater contamination continues to be stable or is reducing as a result of the soil remediation.

Groundwater Sampling

During the November 2019 sampling event, each of the 23 planned groundwater monitoring wells/piezometers were sampled. Figure 2 depicts the site layout and monitoring well/piezometer locations.

Prior to sample collection, groundwater elevation measurements were collected from the monitoring wells and piezometers for the evaluation of groundwater flow at the Property. Depth to groundwater measurements and calculated elevations are provided in Table 1. Consistent with prior sampling events, the depth to groundwater was measured at MW-8, however this well was not sampled.

Groundwater samples were collected from the monitoring wells and piezometers using low-flow sampling techniques with a peristaltic pump and new tubing for each well. Field parameters, including pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature, were measured during well purging and recorded following stabilization of each parameter. The field parameter measurements are included in Table 2.

Groundwater samples from the 23 wells were submitted to Pace Analytical Services, Inc. (Pace), in Green Bay, Wisconsin, and analyzed for volatile organic compounds (VOCs - SW846 Method 8260B). Data validation of the laboratory results was performed by an AECOM chemist and presented with this letter as a memorandum (attached).

Groundwater Results

Contoured groundwater elevations from the November 2019 measurements depict groundwater flow to the east-northeast (Figure 3), consistent with the flow direction determined by AECOM previously. Groundwater flow direction appears to be influenced by the presence of a storm sewer running north-south through the center of the property.

The groundwater analytical results were compared to Wisconsin Administrative Code Ch. NR 140.10, Table 1, Public Heath Groundwater Quality Standards, and are summarized in Table 3 and depicted on Figure 4. Laboratory analytical reports are also attached.

Five chlorinated VOCs were detected above the PAL or ES; 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), trichloroethene (TCE) and vinyl chloride (VC). The wells with exceedances were:

Well Identification	ES Exceedances	PAL Exceedances
MW-9R	TCE, cis-DCE, VC	1,1-DCE
PZ-9	TCE, cis-DCE, 1,1-DCE, VC	
PZ-9B		TCE
MW-16	TCE	cis-DCE
MW-18	TCE	cis-DCE
MW-19	TCE, cis-DCE, VC	trans-DCE
MW-20	cis-DCE, VC	
MW-21	TCE, cis-DCE, VC	
MW-22	TCE, cis-DCE, VC	
MW-23	TCE, cis-DCE, VC	
MW-24		TCE
MW-25	TCE, cis-DCE, VC	
MW-26	VC	TCE, cis-DCE
MW-27	TCE, cis-DCE, 1,1-DCE, VC	
SMW-2	TCE	cis-DCE
SMW-3		TCE

Groundwater analytical data from the November 2019 sampling event is similar to previous groundwater sampling events completed at the Property. Enforcement Standard (ES) exceedances for VOCs were detected in 13 of the 23 wells, primarily near the center of the Property. Preventive Action Limit (PAL) exceedances for VOCs were detected in nine of the 23 wells as listed above. It should be noted that new ES exceedances for 1,1-DCE is part of the natural dehalogenation process of chlorinated VOC reduction. The extent of VOC groundwater plume is similar to what was identified previously. VOCs were not detected in downgradient/perimeter monitoring wells MW-12, MW-13, MW-14R, or MW-15. TCE was not detected in downgradient temporary well TW-2. It is assumed that the TCE detection in TW-2, MW-13 and MW-15 reported for the November 2018 was a singular anomaly.

The overall relationship between TCE concentrations and groundwater elevations was assessed at three monitoring wells (MW-9R, MW-19 and MW-21) and one piezometer (PZ-9). Figures 5 through 8 depict TCE concentrations and groundwater elevations over time. MW-9R and MW-21 exhibit decreasing trend

lines. MW-19 depicts a stable concentration. PZ-9 depicts a decreasing concentration since May 2018. Between about 2011 and 2018 concentrations depicted in the figures trended up and down with the groundwater elevation suggesting some concentration in the capillary fringe which is subject to flushing with a rising water table. Soil remediation was completed in 2017 to remove the source of contamination in the unsaturated zone, but some residual TCE concentrations are still bound within the saturated soil. In the last two events conducted in 2019, there has been a favorable inverse trend of increasing water levels while decreasing concentrations as shown on Figures 5 through 8.

Conclusions

The overall groundwater plume appears to be stable or decreasing. Additional work planned for 2020 include a cap for a portion of the groundwater plume area with additional groundwater monitoring pending approval and funding authorization by the WDNR.

Please contact us if you have questions about this letter.

Yours sincerely,

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In conformance with NR 712.09 submittal certification requirements:
"I, Lanette Altenbach, hereby 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 applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Attachments

Table 1 – Groundwater Measurements and Elevations
Table 2 – Groundwater – Measured Field Parameters
Table 3 – Detected VOCs in Groundwater
Figure 1 – Site Location Figure 2 – Site Layout
Figure 3 – Water Table Contour Map – November 2019
Figure 4 – Groundwater Analytical Summary ES Exceedances – November 2019
Figure 5 – MW-9R - TCE Concentrations and Groundwater Elevations over Time
Figure 6 – PZ-9 - TCE Concentrations and Groundwater Elevations over Time
Figure 7 – MW-19 - TCE Concentrations and Groundwater Elevations over Time
Figure 8 – MW-21 - Analyte Concentrations and Groundwater Elevations over Time
Laboratory Analytical Report
Data Validation Memo

Cc: Paul Grittner, WDNR Project Manager SE Region
Christine Haag, WDNR (by email)

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-8		MW-9R		PZ-9		PZ-9B		MW-12	
Date Installed	~ 2001		unknown		~ 2001		March 2002		~ 2001	
Ground Elevation (ft)	620.63		621.53		621.04		621.25		618.97	
Top of PVC Casing Elevation (ft MSL)	620.40		621.31		621.04		621.26		618.53	
Screen Length (ft)	10		10		10		5		10	
TOC to Bottom of Well (ft)[A]	19.24		12.55		19.43		35.38		16.86	
Top of Screen (ft-MSL)							590.76		611.53	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	8.36	612.04	6.92	614.39	6.69	614.35	NI	--	8.81	609.72
3/2/2002	9.19	611.21	8.68	612.63	8.51	612.53	7.52	613.74	8.86	609.67
4/15/2002	7.34	613.06	7.79	613.52	7.62	613.42	11.79	609.47	8.04	610.49
4/22/2002	7.49	612.91	7.58	613.73	7.43	613.61	10.02	611.24	7.31	611.22
7/19/2002	8.56	611.84	8.35	612.96	7.30	613.74	7.39	613.87	8.88	609.65
10/24/2002	11.18	609.22	10.98	610.33	9.91	611.13	8.35	612.91	10.15	608.38
1/7/2003	9.66	610.74	11.59	609.72	10.83	610.21	9.29	611.97	9.20	609.33
8/30/2004	10.10	610.30	9.35	611.96	9.15	611.89	8.46	612.80	7.82	610.71
10/11/2004	10.94	609.46	9.57	611.74	9.39	611.65	9.40	611.86	8.46	610.07
10/14/2004	10.90	609.50	9.65	611.66	9.41	611.63	9.39	611.87	8.72	609.81
11/2/2005	10.95	609.45	10.08	611.23	9.52	611.52	11.15	610.11	7.78	610.75
2/22/2006	--	--	8.09	613.22	7.89	613.15	9.30	611.96	8.60	609.93
11/1/2007	9.30	611.10	7.64	613.67	7.69	613.35	7.42	613.84	8.85	609.68
11/5/2008	8.67	611.73	7.70	613.61	7.51	613.53	7.70	613.56	8.72	609.81
7/21/2011	9.62	610.78	6.71	614.60	6.43	614.61	7.90	613.36	9.14	609.39
4/11/2012	8.81	611.59	7.20	614.11	--	--	--	--	8.91	609.62
4/18/2012	8.05	612.35	8.43	612.88	--	--	--	--	7.47	611.06
7/12/2012	--	--	--	--	8.16	612.88	9.00	612.26	--	--
7/5/2016	8.89	611.51	7.20	614.11	6.96	614.08	8.11	613.15	8.73	609.80
5/23/2018	--	--	5.85	615.46	5.60	615.44	8.27	612.99	6.60	611.93
11/7/2018	7.83	612.57	6.38	614.93	6.16	614.88	6.57	614.69	7.26	611.27
5/6/2019	7.40	613.00	5.88	615.43	5.69	615.35	8.01	613.25	7.35	611.18
11/7/2019	7.27	613.13	4.91	616.40	4.68	616.36	5.90	615.36	8.22	610.31

ft MSL= feet mean sea level

ft = feet NI = Not Installed

[A] = as measured inside well

-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-13		MW-14/MW-14R		PZ-14		MW-15		MW-16	
Date Installed	~ 2001		~2001/April 2012		~2001		March 2002		March 2002	
Ground Elevation (ft)	620.32		617.48		617.58		619.95		622.44	
Top of PVC Casing Elevation (ft MSL)	620.03		617.48		617.34		619.49		622.04	
Screen Length (ft)	10		10		5		10		10	
TOC to Bottom of Well (ft)[A]	19.75		15.29		19.86		15.26		15.28	
Top of Screen (ft-MSL)	610.13		614.48		602.34		613.49		616.04	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	9.39	610.64	8.06	609.42	15.24	602.10	NI	--	NI	--
3/2/2002	8.60	611.43	7.45	610.03	8.48	608.86	11.84	607.65	8.39	613.65
4/15/2002	7.76	612.27	4.03	613.45	5.13	612.21	11.36	608.13	7.24	614.80
4/22/2002	7.67	612.36	3.94	613.54	5.12	612.22	11.75	607.74	7.17	614.87
7/19/2002	9.96	610.07	8.02	609.46	8.32	609.02	11.75	607.74	7.31	614.73
10/24/2002	11.64	608.39	8.96	608.52	11.03	606.31	12.28	607.21	8.06	613.98
1/7/2003	10.12	609.91	9.09	608.39	11.16	606.18	12.51	606.98	9.14	612.90
8/30/2004	9.25	610.78	--	--	--	--	12.44	607.05	--	--
10/11/2004	10.84	609.19	7.47	610.01	8.04	609.30	12.76	606.73	9.94	612.10
10/14/2004	10.82	609.21	7.80	609.68	8.26	609.08	12.71	606.78	9.94	612.10
11/2/2005	10.98	609.05	5.98	611.50	6.99	610.35	12.54	606.95	9.06	612.98
2/22/2006	9.17	610.86	7.15	610.33	7.41	609.93	12.20	607.29	8.29	613.75
11/1/2007	9.91	610.12	5.70	611.78	6.64	610.70	11.80	607.69	8.43	613.61
11/5/2008	9.02	611.01	7.82	609.66	8.18	609.16	11.63	607.86	8.46	613.58
7/21/2011	10.86	609.17	--	--	8.82	608.52	12.30	607.19	7.56	614.48
4/11/2012	9.22	610.81	--	--	8.28	609.06	12.22	607.27	9.14	612.90
4/18/2012	9.43	610.60	--	--	--	--	12.09	607.40	--	--
7/12/2012	11.48	608.55	9.03	608.45	9.35	607.99	--	--	--	--
7/5/2016	11.02	609.01	7.62	609.86	8.33	609.01	12.02	607.47	8.08	613.96
5/23/2018	3.40	616.63	3.75	613.73	5.07	612.27	11.45	608.04	--	--
11/7/2018	4.67	615.36	4.75	612.73	6.02	611.32	11.37	608.12	--	--
5/6/2019	5.48	614.55	5.14	612.34	6.46	610.88	11.57	607.92	6.52	615.52
11/7/2019	6.51	613.52	6.07	611.41	7.18	610.16	11.32	608.17	5.65	616.39

ft MSL= feet mean sea level

ft = feet NI = Not Installed

[A] = as measured inside well

-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-18		MW-19		MW-20		MW-21		MW-22	
Date Installed	October 2004		October 2004		October 2004		October 2004		October 2004	
Ground Elevation (ft)	622.16		621.82		621.25		621.60		620.66	
Top of PVC Casing Elevation (ft MSL)	621.59		621.50		620.79		621.00		620.06	
Screen Length (ft)	10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	17.28		17.28		17.33		17.45		17.05	
Top of Screen (ft-MSL)	613.59		613.50		612.79		613.00		612.06	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--	NI	--
10/11/2004	9.77	611.73	9.83	611.67	9.76	611.03	9.27	611.73	9.05	611.01
10/14/2004	9.82	611.68	9.85	611.65	9.79	611.00	9.28	611.72	9.07	610.99
11/2/2005	10.21	611.29	10.26	611.24	10.38	610.41	9.70	611.30	10.27	609.79
2/22/2006	8.41	613.09	8.31	613.19	8.23	612.56	7.77	613.23	7.58	612.48
11/1/2007	7.94	613.56	7.78	613.72	7.78	613.01	7.33	613.67	7.30	612.76
11/5/2008	8.05	613.45	7.88	613.62	7.11	613.68	10.38	610.62	7.38	612.68
7/21/2011	7.05	614.45	7.02	614.48	6.71	614.08	6.42	614.58	6.40	613.66
4/11/2012	--	--	7.37	614.13	--	--	--	--	--	--
4/18/2012	--	--	--	--	--	--	--	--	--	--
7/12/2012	8.75	612.75	8.73	612.77	8.43	612.36	8.10	612.90	7.95	612.11
7/5/2016	7.50	614.00	7.47	614.03	7.31	613.48	6.87	614.13	6.73	613.33
5/23/2018	--	--	6.30	615.20	6.44	614.35	5.54	615.46	5.39	614.67
11/7/2018	--	--	6.82	614.68	6.81	613.98	6.13	614.87	6.15	613.91
5/6/2019	6.09	615.41	6.45	615.05	6.33	614.46	5.72	615.28	5.84	614.22
11/7/2019	5.30	616.20	5.41	616.09	5.25	615.54	4.85	616.15	5.46	614.60

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[A] = as measured inside well

-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-23		MW-24		MW-25		MW-26		MW-27	
Date Installed	October 2004		October 2004		September 2005		September 2005		September 2005	
Ground Elevation (ft)	620.66		620.08		623.38		621.40		620.16	
Top of PVC Casing Elevation (ft MSL)	619.92		619.95		622.91		621.01		619.86	
Screen Length (ft)	10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	18.4		17.44		16.32		16.36		16.29	
Top of Screen (ft-MSL)	610.92				615.91		614.01		612.86	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--	NI	--
10/11/2004	10.22	609.70	11.46	608.49	NI	--	NI	--	NI	--
10/14/2004	10.22	609.70	11.46	608.49	NI	--	NI	--	NI	--
11/2/2005	10.65	609.27	10.75	609.20	11.11	611.80	10.74	610.27	11.94	607.92
2/22/2006	8.76	611.16	10.63	609.32	8.32	614.59	8.71	612.30	10.85	609.01
11/1/2007	7.52	612.40	9.78	610.17	8.74	614.17	7.92	613.09	9.31	610.55
11/5/2008	7.78	612.14	9.80	610.15	8.51	614.40	8.12	612.89	9.71	610.15
7/21/2011	7.01	612.91	10.03	609.92	8.15	614.76	7.13	613.88	9.20	610.66
4/11/2012	--	--	--	--	7.68	615.23	7.59	613.42	--	--
4/18/2012	--	--	--	--	--	--	--	--	--	--
7/12/2012	8.45	611.47	10.30	609.65	9.71	613.20	8.85	612.16	10.40	609.46
7/5/2016	7.44	612.48	10.40	609.55	8.34	614.57	7.53	613.48	10.80	609.06
5/23/2018	6.73	613.19	10.30	609.65	4.75	618.16	6.47	614.54	9.11	610.75
11/7/2018	7.20	612.72	10.43	609.52	6.09	616.82	6.32	614.69	9.90	609.96
5/6/2019	6.98	612.94	10.76	609.19	5.79	617.12	6.61	614.40	9.49	610.37
11/7/2019	6.29	613.63	11.07	608.88	5.45	617.46	5.44	615.57	8.99	610.87

ft MSL= feet mean sea level

ft = feet NI = Not Installed

[A] = as measured inside well

-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	SMW-2		SMW-3		TW-1		TW-2	
Date Installed	July 2011		July 2012					
Ground Elevation (ft)	622.78		623.19		622.27		621.69	
Top of PVC Casing Elevation (ft MSL)	622.46		622.96		623.49		623.85	
Screen Length (ft)	10		10		10		10	
TOC to Bottom of Well (ft)[A]	15.65		16.21		8		17.57	
Top of Screen (ft-MSL)	616.61		616.71		616.14		613.85	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--
10/11/2004	NI	--	NI	--	NI	--	NI	--
10/14/2004	NI	--	NI	--	NI	--	NI	--
11/2/2005	NI	--	NI	--	NI	--	NI	--
2/22/2006	NI	--	NI	--	NI	--	NI	--
11/1/2007	NI	--	NI	--	NI	--	NI	--
11/5/2008	NI	--	NI	--	NI	--	NI	--
7/21/2011	8.00	614.46	NI	--	8.15	615.34	16.10	607.75
4/11/2012	7.73	614.73	NI	--	8.06	615.43	15.95	607.90
4/18/2012	--	--	NI	--	--	--	--	--
7/12/2012	9.54	612.92	9.46	613.50	DRY	--	13.92	609.93
7/5/2016	8.21	614.25	8.18	614.78	6.96	616.53	13.60	610.25
5/23/2018	6.01	616.45	4.77	618.19	2.60	620.89	12.11	611.74
11/7/2018	7.08	615.38	6.04	616.92	4.96	618.53	12.33	611.52
5/6/2019	6.55	615.91	5.34	617.62	4.67	618.82	12.52	611.33
11/7/2019	5.69	616.77	5.13	617.83	5.09	618.40	12.52	611.33

ft MSL= feet mean sea level

ft = feet NI = Not Installed

[A] = as measured inside well

-- not measured; no elevation

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-9R						
	7/21/2011	7.00	0.5	15	NM	15.5
	7/12/2012	7.00	1	-93	NM	14.8
	7/6/2016	6.80	0.48	7.3	907	15.4
	5/24/2018	6.63	1.15	71.3	772	12.7
	11/8/2018	6.66	0.09	16.5	1104	14.0
	5/7/2019	6.77	1.72	39.46	565	10.3
	11/8/2019	6.64	2.81	18.3	494	13.6
MW-12						
	7/21/2011	7.20	0.1	-89	NM	12.9
	4/11/2012	7.80	1	60	NM	11.0
	5/23/2018	6.43	0.91	120.9	536	13.4
	11/7/2018	6.66	0.12	47.4	849	15.2
	5/6/2019	6.81	1.57	108.2	616	11.6
	11/7/2019	6.80	0.12	-2.4	954	15.2
MW-13						
	7/21/2011	7.30	0.1	-86	NM	10.9
	4/11/2012	7.70	3.2	70	NM	10.3
	5/23/2018	6.63	2.54	121.3	459	12.8
	11/7/2018	6.56	2.38	17.9	730	13.1
	5/6/2019	6.76	2.31	109.11	755	11.2
	11/7/2019	6.66	0.23	82	992	12.1
MW-14R						
	4/13/2012	7.20	2.6	-65	NM	10.1
	7/6/2016	7.00	0.91	-116.8	784	17.1
	5/23/2018	6.63	0.37	82.2	478	14.0
	11/7/2018	6.69	0.17	-42.6	640	13.7
	5/6/2019	6.84	0.86	48.27	685	10.7
	11/7/2019	6.74	0.12	75.3	741	12.9
MW-15						
	7/21/2011	7.60	0.43	-38	NM	13.7
	4/11/2012	7.40	1.8	40	NM	9.8
	5/23/2018	6.84	2.5	128.5	557	14.3
	11/7/2018	7.02	6.3	27.3	580	12.1
	5/6/2019	6.75	1.85	101.64	2549	11.9
	11/7/2019	6.82	0.21	26.3	4276	11.8

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-16	7/21/2011	7.20	0.2	-109	NM	13.1
	4/12/2012	7.30	1.7	21	NM	10.8
	5/23/2018	Unable to Locate				
	11/7/2018	Unable to Locate				
	5/7/2019	6.60	0.15	50.62	1228	10.1
	11/7/2019	6.72	0.29	-51.5	1240	12.3
MW-18	7/21/2011	7.00	0.2	-72	NM	14.3
	4/12/2012	7.40	6	50	NM	11.1
	7/5/2016	6.99	0.69	-101.2	1114	17.9
	5/23/2018	Unable to Locate				
	11/7/2018	Unable to Locate				
	5/7/2019	6.65	0.059	24.09	452	12.1
	11/8/2019	6.52	0.37	98.4	1395	10.8
MW-19	7/21/2011	7.30	0.03	-82	NM	12.6
	4/11/2012	7.80	1	-40	NM	10.9
	7/6/2016	7.04	0.42	-46.6	1293	17.0
	5/24/2018	6.91	0.21	11	1044	15.4
	11/8/2018	6.88	0.14	-38.1	1217	13.5
	5/7/2019	6.93	0.18	-20.97	519	15.7
	11/8/2019	6.89	0.05	-37.6	821	13.9
MW-20	7/21/2011	7.20	0.02	-108	NM	12.7
	4/12/2012	7.00	2	-104	NM	10.7
	7/6/2016	6.73	0.64	-70.7	981	18.2
	5/23/2018	6.95	0.32	-22.6	967	16.0
	11/7/2018	6.32	2.62	-6.7	934	14.4
	5/6/2019	6.55	3.09	36	610	11.8
	11/8/2019	6.61	0.12	-53.6	1159	12.5
MW-21	7/21/2011	7.00	0.3	-106	NM	14.4
	4/12/2012	7.00	2	-100	NM	10.9
	7/6/2016	6.80	1.52	-90.5	1021	16.6
	5/24/2018	6.59	0.38	-17	866	13.4
	11/8/2018	6.50	0.16	-53.6	1201	14.0
	5/7/2019	6.70	7.47	-42.44	1233	10.3
	11/8/2019	6.88	0.14	-32.5	1907	12.4

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-22	7/21/2011	7.10	0.1	-124	NM	13.0
	4/12/2012	7.60	1.20	-180	NM	11.0
	7/6/2016	6.88	1.05	-125	1292	16.0
	5/24/2018	6.77	0.24	-95.7	972	14.2
	11/8/2018	6.65	0.13	-89.5	1307	14.8
	5/7/2019	6.85	0.04	-106.74	1518	10.6
	11/8/2019	6.96	0.14	-48.5	2023	12.5
MW-23						
	7/21/2011	7.40	0.11	-85	NM	12.2
	4/12/2012	7.10	1	-96	NM	10.7
	7/6/2016	6.81	0.94	-94.1	1071	16.2
	5/23/2018	6.68	0.44	-50.8	925	13.1
	11/7/2018	6.45	0.08	-61.6	1300	14.8
	5/6/2019	6.77	0.07	-68.92	1062	11.5
	11/8/2019	6.93	0.22	-38.3	1758	12.1
MW-24						
	7/21/2011	7.40	0.06	-64	NM	12.6
	4/12/2012	7.20	0.8	83	NM	10.3
	7/12/2012	7.10	1.7	180	NM	14.2
	5/24/2018	6.77	0.82	104.6	977	16.5
	11/8/2018	6.58	0.15	39.7	1408	14.2
	5/7/2019	6.90	1.01	81.51	1190	9.5
	11/7/2019	6.94	0.23	16.8	1668	11.3
MW-25						
	7/21/2011	7.10	0.3	-126	NM	12.0
	4/11/2012	7.40	2	-40	NM	10.0
	5/23/2018	6.50	0.38	-14.9	1164	13.6
	11/8/2018	6.25	NM	-24.9	1412	12.6
	5/6/2019	6.52	0.27	-51.95	1372	12.1
	11/7/2019	6.64	0.32	-175.8	1987	11.6
MW-26						
	7/21/2011	7.30	0.02	-137	NM	12.6
	4/11/2012	7.20	0.6	-1	NM	10.6
	7/6/2016	6.56	1.02	-2.3	499	17.0
	5/24/2018	6.28	0.45	77.3	360	13.4
	11/8/2018	6.29	NM	36.2	487	13.7
	5/7/2019	6.40	0.27	97.34	588	10.1
	11/8/2019	6.41	0.24	77.9	889	11.9

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-27						
	7/21/2011	7.40	0.21	-78	NM	13.6
	4/12/2012	7.10	0.5	-92	NM	9.8
	7/6/2016	6.81	1.43	-84.1	1134	16.4
	5/24/2018	6.69	0.38	-49.8	872	14.1
	11/8/2018	6.60	0.12	-65.2	1018	15.3
	5/7/2019	6.69	0.22	-48.74	1111	10.3
	11/8/2019	6.91	0.29	-41.6	1803	13.4
PZ-9						
	7/21/2011	6.90	0.5	22	NM	12.6
	4/12/2012	7.20	0.7	-11	NM	10.9
	7/6/2016	6.81	0.45	-64.4	1348	15.1
	5/24/2018	6.50	0.32	1.6	870	12.6
	11/8/2018	6.42	0.13	-52.5	1355	12.7
	5/7/2019	6.77	0.04	-38.3	1468	10.3
	11/8/2019	6.73	0.06	-4.4	1437	12.9
PZ-9B						
	7/21/2011	7.70	0.1	-143	NM	11.9
	4/13/2012	7.80	1.4	-28	NM	12.4
	7/6/2016	7.42	0.46	-87.5	438	15.2
	5/24/2018	6.80	0.81	73.4	339	15.1
	11/8/2018	6.99	1.19	-35.9	474	13.2
	5/7/2019	7.12	2.17	75.6	451	10.1
	11/8/2019	7.49	0.16	-135.6	502	9.5
PZ-14						
	7/21/2011	7.40	0.6	-65	NM	11.6
	4/11/2012	7.50	2	92	NM	11.0
	5/23/2018	6.98	0.65	120.7	741	14.4
	11/7/2018	6.99	2.67	61.3	1004	13.8
	5/6/2019	7.15	1.91	124.6	780	12.1
	11/7/2019	7.23	4.47	49.6	918	12.2
SMW-2						
	7/21/2011	7.70	0.25	-70	NM	12.2
	4/13/2012	7.30	1.40	-30	NM	10.3
	7/5/2016	7.01	0.89	-102.8	1349	16.0
	5/24/2018	6.92	0.33	42.9	1024	14.9
	11/8/2018	6.95	NM	-34.7	1163	12.9
	5/7/2019	7.04	0.36	77.2	1396	9.7
	11/7/2019	7.03	0.72	77.3	1507	11.4

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
SMW-3						
	7/6/2016	6.89	1.52	-139.1	1589	14.9
	5/23/2018	6.95	4.11	100.5	497	14.7
	11/7/2018	6.69	0.17	-13.0	1699	11.3
	5/6/2019	6.77	4.37	12.2	581	10.0
	11/7/2019	6.73	0.25	70.9	847	12.4
TW-1						
	7/21/2011	7.30	0.44	-74	NM	12.4
	4/11/2012	7.00	--	--	NM	--
	5/23/2018	6.09	4.69	197	666	16.0
	11/7/2018	6.66	1.1	-16.5	990	13.2
	5/6/2019	6.93	0.595	7.04	779	11.0
	11/7/2019	6.77	0.52	107.3	945	12.5
TW-2						
	7/21/2011	7.20	0.5	-12	NM	12.6
	4/11/2012	7.00	--	13	NM	10.5
	5/23/2018	6.53	5.19	161	556	13.6
	11/7/2018	6.97	6.81	39.2	458	14.6
	5/6/2019	7.15	5.78	41.3	586	11.3
	11/7/2019	6.92	4.08	117.2	863	10.8

Notes: mg/l = milligrams per liter. msl = mean sea level
ft = feet NM = Not Measured

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-8	5/19/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	< 0.5
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.2 JB	< 0.5	< 0.5	0.2 JB	< 0.5	0.2 JB	< 0.5	NPD	0.09 JB	< 0.5	< 0.5
	7/23/2002	0.03	NPD	< 0.5	< 0.5	0.3	< 0.5	< 0.5	0.2 JB	< 0.5	0.1 JB	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.19 JB	< 0.5	< 0.5	NPD	0.26 JB	< 0.5	< 0.5
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.56
	2/7/2011	< 0.2	NPD	< 0.25	0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 1.2
	6/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 0.3
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.742	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
MW-9R	3/19/2002	*2*	NPD	< 0.5	**450**	**56,000**	**520**	*310*	0	*3*	13	< 0.5	NPD	**28,000**	**8,300**	17
	4/22/2002	< 1300	NPD	< 1300	**360**	**51,000**	**400**	*250*	**440**	**250 JB**	150	< 1300	NPD	**31,000**	**6,200**	< 1300
	7/23/2002	< 630	NPD	< 630	**200**	**31,000**	**280**	*210*	**230 JB**	< 630	90 JB	< 630	NPD	**22,000**	< 630	< 630
	10/14/2004	*1*	NPD	< 0.5	**210**	**570,000**	**200**	*230 E*	< 0.5	*1.8*	14	< 0.5	NPD	**16,000**	**5,100**	21
	2/23/2006	< 2500	NPD	< 2500	< 2500	**58,000**	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	**4,400**	**4,100**	< 2500
	12/20/2006	< 50	NPD	< 100	**170**	**63,000**	**260**	88	< 200	< 80	< 70	< 80	NPD	**2,000**	**3,700**	NA
	2/1/2007	*1*	NPD	NA	**182**	**27,600**	**274**	*260*	< 0.53	*3.9*	11	NA	NPD	**21,000**	**3,770**	22
	12/12/2007	< 500	NPD	< 980	< 600	**50,000**	< 790	< 780	< 1100	NA	< 530	< 850	NPD	**590 J**	**4,900**	< 1900
	3/5/2011	*1*	NPD	< 0.5	< 1300	**440,000**	< 1300	< 1300	< 0.5	*0.9*	10	< 0.5	NPD	**9,700**	**4,200**	11
	5/7/2011	< 100	NPD	< 130	< 120	**34,000**	< 100	< 100	**1930**	< 130	< 140	< 150	NPD	**2,710**	**2,710**	< 280
	5/8/2011	< 200	NPD	< 120	< 270	**44,100**	< 230	< 220	< 500	< 110	< 180	< 170	NPD	**1,440**	**3,870**	< 580
	7/22/2011	< 50	NPD	< 98	< 60	**28,000**	**370**	< 78	< 110	< 44	< 53	< 85	NPD	**1,290**	**2,010**	< 190
	7/6/2016	< 125	< 125	< 60.4	< 103	**24,800**	*91.4*	< 125	< 58.1	< 125	< 125	< 125	< 49.3	**373**	**2,590**	< 375
	5/24/2018	< 125	< 125	< 60.4	< 103	**26,300**	**120 J**	< 125	< 58.1	< 125	< 125	< 125	< 49.3	**1,210**	**1,390**	< 375
	11/8/2018	< 61.6	< 547	< 68.1	< 61.2	**19,100**	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	**490**	**1,230**	< 375
	5/7/2019	< 61.6	< 547	< 68.1	< 61.2	**15700**	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	**303**	**1090**	< 375
	11/8/2019	< 0.99	< 8.8	< 1.1	*1.2 J*	**269**	< 4.4	< 0.87	< 2.3	< 1.3	< 0.69	< 0.98	< 2.2	**85.2**	**12.6**	< 6.0
MW-9R DUP	3/19/2002	< 1300	NPD	< 1300	**300**	**56,000**	**450**	*270*	**250 JB**	< 1300	*280 JB*	< 1300	NPD	**26,000**	**6,100**	< 1300
	2/23/2006	< 250	NPD	< 250	**170**	**51000 D**	**340**	120	< 250	< 250	< 250	< 250	NPD	**5,900**	**8,400**	< 250
PZ-9	7/1/2001	*2*	NPD	NA	**138**	**21,400**	**272**	*180*	< 0.53	**25**	21	NA	NPD	**21,000**	**3,770**	18
	3/19/2002	*2*	NPD	< 0.5	**490**	**62,000**	**670**	*360*	0	**19**	14	< 0.5	NPD	**82,000**	**4,300**	10
	4/22/2002	**77**	NPD	< 1800	**360**	**50,000**	**520**	*230*	**730**	**170**	*200 JB*	< 1800	NPD	**71,000**	**3,400**	< 1800
	7/23/2002	< 6300	NPD	< 6300	< 6300	**65,000**	< 6300	< 6300	**3100**	< 6300	< 6300	< 6300	NPD	**230,000**	**3,900**	< 6300
	10/14/2004	*1*	NPD	< 0.5	**150**	**42,000**	**180**	130 E	< 0.5	**19**	18	< 0.5	NPD	**62,000**	**2,900**	9
	2/23/2006	< 2500	NPD	< 2500	< 2500	**37,000**	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	**71,000**	**1,900**	< 2500
	12/21/2006	< 50	NPD	< 100	**260**	**69,000**	**480**	*160*	< 200	< 80	< 70	< 80	NPD	**130,000**	**2,500**	NA
	3/5/2011	< 6300	NPD	< 6300	< 6300	**65,000**	< 6300	< 6300	< 6300	< 6300	< 6300	< 6300	NPD	**140,000**	< 6300	< 6300
	5/7/2011	< 200	NPD	< 250	< 230	**24,700**	< 200	< 200	< 1000	< 250	< 270	< 290	NPD	**49,700**	< 340	< 560
	5/8/2011	< 400	NPD	< 240	< 540	**60,000**	< 450	< 430	< 1000	< 220	< 350	< 330	NPD	**95,800**	**2,240**	< 1200
	7/21/2011	< 1480	NPD	< 1960	< 1200	**88,000**	< 1580	< 1560	< 2200	< 880	< 1060	< 1700	NPD	**114,000**	**3,800**	< 3800
	4/12/2012	< 500	NPD	< 980	< 600	**97,000**	< 790	< 780	< 1100	< 440	< 530	< 850	NPD	**103,000**	**3,160**	< 1900
	7/6/2016	< 500	< 500	< 242	< 410	**97,700**	**536**	< 500	< 233	< 500	< 500	< 500	< 197	**79,200**	**5,030**	< 1500
	5/24/2018	< 500	< 500	< 242	**569 J**	**107,000**	**739 J**	< 500	< 233	< 500	< 500	< 500	< 197	**97,700**	**5,080**	< 1500
	11/8/2018	< 246	< 2190	< 273	**247 J**	**89,100**	< 1090	< 218	< 581	< 326	< 172	< 245	< 552	**93,600**	**4,390**	< 1500
	5/7/2019	< 493	< 4380	< 545	< 490	**104,000**	< 2180	< 436	< 1160	< 653	< 344	< 490	< 1100	**78,600**	**5,530**	< 3000
	11/8/2019	< 246	< 2190	< 273	**362 J**	**67,600**	< 1090	< 218	< 581	< 326	< 172	< 245	< 552	**49,900**	**4,570**	< 1500
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
PZ-9B	3/18/2002	0	NPD	< 0.5	< 0.5	1	0	0	0.2 JB	< 0.5	0.2 JB	< 0.5	NPD	*4*	< 0.5	0
	4/4/2002	< 0.5	NPD	< 0.5	< 0.5	1	0	< 0.5	0.2 JB	< 0.5	0.06 JB	< 0.5	NPD	*2*	0	< 0.5
	7/23/2002	0	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	0.2 JB	< 0.5	0.06 JB	< 0.5	NPD	*3*	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	0	1.3 D	1	0	< 0.5	< 0.5	0	< 0.5	NPD	**37**	**3**	< 0.5
	2/23/2006	< 0.5	NPD	< 0.5	< 0.5	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*1*	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	*2*	< 1	NA
	3/5/2011	< 0.5	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*1*	< 0.5	< 0.5
	5/7/2011	< 0.2	NPD	< 0.25	< 0.23	1	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	*1*	< 0.34	< 0.56
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	1	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/21/2011	< 0.5	NPD	< 0.98	< 0.6	1.25 J	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	*1.32* J	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	0.85	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	*2.11*	< 0.18	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	1.1	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	*4.6*	< 0.18	< 1.5
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	0.80 J	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	**9.1**	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	*7.7*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**22.9**	< 0.17	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	0.60 J	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**5.5**	< 0.17	< 1.5
	11/8/2019	< 0.25	< 2.2	< 0.27	< 0.24	2.7	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*2.1*	< 0.17	< 1.5
MW-12	5/18/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	1
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.06 JB	< 0.5	< 0.5	0.1 JB	< 0.5	0.2 JB	< 0.5	NPD	0.08 JB	< 0.5	< 0.5
	7/23/2002	0	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2 JB	< 0.5	0.08 JB	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	0	3	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0	**1**	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	5/23/2018	< 0.50	0.54 J	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
MW-13	5/18/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	*1*	< 0.17	< 0.5
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.2 JB	< 0.5	< 0.5	0.1 JB	< 0.5	0.2 JB	< 0.5	NPD	0.4 JB	< 0.5	< 0.5
	7/23/2002	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2 JB	< 0.5	0.1 JB	< 0.5	NPD	0	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	0	< 0.5	< 0.5	< 0.5	0	< 0.5	0.22 JB	< 0.5	< 0.5	NPD	0.39 JB	< 0.5	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	0.42 J	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-14R	4/12/2012	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	< 0.33	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
PZ-14	7/2/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	< 0.5
	3/19/2002	0	NPD	< 0.5	< 0.5	0.4 JB	< 0.5	0	0.1 JB	< 0.5	0.2 JB	< 0.5	NPD	*2*	< 0.5	0
	7/23/2002	0	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.1 JB	< 0.5	0.05 JB	< 0.5	NPD	0	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.25 JB	< 0.5	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	1	NPD	< 1	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
MW-15	3/19/2002	< 0.5	NPD	< 0.5	< 0.5	0.03 JB	< 0.5	< 0.5	0.1 JB	< 0.5	0.1 JB	< 0.5	NPD	0.09 JB	< 0.5	< 0.5
	7/23/2002	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.1 JB	< 0.5	0.06 JB	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.18 JB	< 0.5	< 0.5	NPD	0.23 JB	< 0.5	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 0.43	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	7/25/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	< 0.33	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	0.34 J	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
MW-16	3/19/2002	0.03 JB	NPD	< 0.5	< 0.5	*14*	0.4 JB	< 0.5	0.1 JB	< 0.5	0.2 JB	< 0.5	NPD	< 0.5	**1**	< 0.5
	7/23/2002	< 1	NPD	< 1	< 1	2	< 1	< 1	< 1	< 1	0.2 JB	< 1	NPD	**37**	< 1	< 1
	10/14/2004	< 0.5	NPD	< 0.5	0	*15* D	1	< 0.5	< 0.5	0	< 0.5	< 0.5	NPD	**84**	**3**	< 0.5
	2/22/2006	< 2.5	NPD	< 2.5	< 2.5	*18*	1	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	NPD	**93**	< 2.5	< 2.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	*20*	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	**73**	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	*8*	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	**34**	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	*11*	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	**58** D	< 0.5	< 0.5
	6/8/2011	< 0.4	NPD	< 0.24	< 0.54	*8*	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	**31**	< 0.3	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	*7*	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**150**	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	*20*	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**30**	**0.34** J	< 1.9
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	*9.4*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**9.9**	**0.48** J	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	*32.2*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**130**	< 0.17	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Table 3
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Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-18	10/14/2004	0	NPD	1	*1*	*14*	1	< 0.5	< 0.5	0.18 JB	0	< 0.5	NPD	*4*	**4**	< 5
	11/2/2005	< 0.5	NPD	1	0	*22*	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*3*	**10**	< 0.5
	2/22/2006	< 1	NPD	< 1	< 1	*19*	0	< 1	< 1	< 1	< 1	< 1	NPD	**9**	**49**	< 1
	12/20/2006	< 0.5	NPD	< 1	< 0.8	*24*	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	**29**	**37**	NA
	11/1/2007	< 0.2	NPD	1	*1*	**73**	3	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	**139**	**7**	< 0.56
	11/5/2008	< 0.4	NPD	1	*1*	**72**	2	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	**88**	**13**	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	*42*	1.19 J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**176**	< 0.18	< 1.9
	4/12/2012	< 2.5	NPD	< 4.9	< 3	*24*	< 3.95	< 3.9	< 5.5	< 2.2	< 2.65	< 4.25	NPD	**47**	**1.8 J**	< 9.5
	7/5/2016	< 0.5	< 0.5	0.38	0.48	*51*	1	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	*2.9*	**30**	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	0.59 J	**82.7**	1.5 J	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**41.5**	**12.2**	< 1.5
	11/8/2019	< 0.25	< 2.2	< 0.27	< 0.24	*20.6*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**124**	< 0.17	< 1.5
MW-19	10/14/2004	**27**	NPD	< 0.5	*5*	**270**	5	4	0	*4.8 B*	8	< 0.5	NPD	**1,000**	**29**	2
	11/2/2005	< 50	NPD	< 50	< 50	**660**	< 50	< 50	< 50	< 50	< 50	< 50	NPD	**3,500**	**50**	< 50
	2/22/2006	< 42	NPD	< 42	< 42	**470**	< 42	< 42	< 42	< 42	< 42	< 42	NPD	**1,100**	**59**	< 42
	12/20/2006	**14**	NPD	< 5	**16**	**2,500**	19	< 4	< 10	< 4	5	< 4	NPD	**3,000**	**530**	NA
	11/2/2007	**6**	NPD	< 5	< 4.6	**1,280**	10	< 4	**52.2 JB**	< 5.0	< 5.4	< 5.8	NPD	**1,130**	**619**	< 11
	11/5/2008	**9**	NPD	< 4.8	**19**	**1,650**	< 9	< 8.6	< 20	< 4.4	< 7	< 6.6	NPD	**1,590**	**436**	< 23
	7/25/2011	< 50	NPD	< 98	< 60	**11,700**	< 79	< 78	< 110	< 44	< 53	< 85	NPD	**6,900**	**1,220**	< 190
	4/11/2012	< 50	NPD	< 98	< 60	**3,400**	< 79	< 78	< 110	< 44	< 53	< 85	NPD	**3,500**	**420**	< 190
	7/6/2016	< 10	< 10	< 4.8	< 8.2	**2,030**	*92*	< 10	*5*	< 10	< 10	< 10	< 3.9	**1,740**	**199**	< 30
	5/24/2018	< 5.0	< 5.0	< 2.4	*5.4 J*	**345**	17	< 5.0	< 2.3	< 5.0	< 5.0	< 5.0	< 2.0	**1,030**	**22**	< 15.0
	11/8/2018	< 2.5	< 21.9	< 2.7	*4.7 J*	**401**	15.3 J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**1,270**	**22.1**	< 15.0
	5/7/2019	< 2.5	< 21.9	< 2.7	*4.0 J*	**413**	16.7 J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**999**	**25.7**	< 15.0
	11/8/2019	*2.5 J*	< 21.9	< 2.7	< 2.4	**515**	*44.2*	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**1,010**	**32.2**	< 15.0
MW-19D DUP	7/6/2016	< 12.5	< 12.5	< 6	< 10.3	**2,780**	*86*	< 12.5	< 5.8	< 12.5	< 12.5	< 12.5	< 4.9	**2,040**	**236**	< 37.5
	5/24/2018	< 5.0	< 5.0	< 2.4	*4.2 J*	**369**	*22*	< 5.0	< 2.3	< 5.0	< 5.0	< 5.0	< 2.0	**1,190**	**26**	< 15.0
	11/8/2018	< 2.5	< 21.9	< 2.7	*4.6 J*	**372**	14.2 J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**1,180**	**20.4**	< 15.0
	5/7/2019	< 2.5	< 21.9	< 2.7	*4.1 J*	**400**	13.8 J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**977**	**26.6**	< 15.0
	11/8/2019	< 2.5	< 21.9	< 2.7	< 2.4	**478**	*56.2*	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	**958**	**26.8**	< 15.0
MW-20	10/14/2004	**5**	NPD	< 0.5	**11**	**1,500**	11	0	< 0.5	< 0.5	4	< 0.5	NPD	**110**	**3,400**	1
	11/2/2005	*2*	NPD	< 0.5	*5*	**880**	*25*	< 0.5	< 0.5	< 0.5	2	< 0.5	NPD	**83**	**1,100**	1
	2/22/2006	< 31	NPD	< 31	< 31	**1,100**	< 31	< 31	< 31	< 31	< 31	< 31	NPD	**34**	**600**	< 31
	12/20/2006	*1*	NPD	< 1	< 0.8	**290**	1	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	*2*	**270**	NA
	11/1/2007	*1*	NPD	< 0.25	< 0.23	*37*	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	*1*	**96**	< 0.56
	11/1/2007 (Dup)	*1*	NPD	< 0.25	< 0.23	*27*	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	*1*	**89**	< 0.56
	11/5/2008	*1*	NPD	< 0.24	*2*	**301**	2	< 0.43	< 1	< 0.22	1	< 0.33	NPD	*2*	**264**	< 1.2
	7/25/2011	< 0.89 J	NPD	< 0.98	< 0.6	*49*	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	**194**	< 1.9
	4/12/2012	< 10	NPD	< 19.6	< 12	**3,140**	*22.4 J*	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	< 9.4	**590**	< 38
	7/6/2016	< 25	< 25	< 12.1	< 20.5	**5,860**	*20*	< 25	< 11.6	< 25	< 25	< 25	< 9.9	< 16.5	**1,080**	< 75
	5/23/2018	< 62.5	< 62.5	< 30.2	< 51.3	**6,560**	< 32.1	< 62.5	< 29.1	< 62.5	< 62.5	< 62.5	< 24.7	< 41.3	**966**	< 188
	11/7/2018	< 1.2	< 10.9	< 1.4	*1.9 J*	**800**	< 5.5	< 1.1	< 2.9	< 1.6	< 0.86	< 1.2	< 2.8	< 1.3	**132**	< 7.5
	5/6/2019	0.29 J	< 2.2	< 0.27	*1.3*	**109**	1.5 J	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	**57.8**	< 1.5
	11/8/2019	< 1.2	< 10.9	< 1.4	< 1.2	**92.1**	< 5.5	< 1.1	< 2.9	< 1.6	< 0.86	< 1.2	< 2.8	< 1.3	**247**	< 7.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-21	10/14/2004	0	NPD	0	**200**	**6,100**	**170**	5	< 0.5	*4*	1	< 0.5	NPD	**20,000**	**1,100**	1
	11/3/2005	0	NPD	< 0.5	**160**	**8,900**	**150**	2	< 0.5	*3*	1	< 0.5	NPD	**20,000**	**1,400**	1
	2/22/2006	< 50	NPD	< 50	**27**	**2,500**	*28*	< 50	< 50	< 50	< 50	< 50	NPD	**4,200**	**500**	< 50
	12/20/2006	< 0.5	NPD	< 1	*2*	**240**	4	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	**210**	**62**	NA
	11/5/2007	< 1	NPD	< 1.3	*4*	**416**	7	< 1	< 5	< 1.3	< 1.4	< 1.5	NPD	**94**	**60**	< 2.8
	11/5/2008	< 0.8	NPD	< 0.48	< 1.1	**101**	< 0.9	< 0.86	< 2	< 0.44	< 0.7	< 0.66	NPD	**125**	**95**	< 2.3
	7/25/2011	< 25	NPD	< 49	< 30	**1,890**	< 39.5	< 39	< 55	< 22	< 26.5	< 42.5	NPD	**228**	**1,720**	< 95
	4/12/2012	< 10	NPD	< 19.6	< 12	**1,310**	*20.4* J	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	**1,690**	**560**	< 38
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	*65*	1	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	**9.2**	**31**	< 1.5
	5/24/2018	< 20.0	< 20.0	< 9.7	< 16.4	**1,520**	*31.4* J	< 20.0	< 9.3	< 20.0	< 20.0	< 20.0	< 7.9	**2,650**	**383**	< 60.0
	11/8/2018	< 0.49	< 4.4	< 0.55	*1.5* J	**238**	3.0 J	< 0.44	< 1.2	< 0.65	< 0.34	< 0.49	< 1.1	**206**	**52.2**	< 3.0
	5/7/2019	< 0.49	< 4.4	< 0.55	*5*	**487**	6.5 J	< 0.44	< 1.2	< 0.65	< 0.34	< 0.49	< 1.1	**436**	**329**	< 3.0
	11/8/2019	< 0.49	< 4.4	< 0.55	0.64 J	**296**	< 2.2	< 0.44	< 1.2	< 0.65	< 0.34	< 0.49	< 1.1	**23**	**645**	< 3.0
MW-22	10/14/2004	0	NPD	0	**14**	**1,600**	16	0	< 0.5	< 0.5	0	< 0.5	NPD	**320**	**520**	< 0.5
	11/2/2005	< 63	NPD	< 63	< 63	**1,800**	< 63	< 63	< 63	< 63	< 63	< 63	NPD	**45**	**1,700**	< 63
	2/22/2006	< 50	NPD	< 50	< 50	**3,100**	15	< 50	< 50	< 50	< 50	< 50	NPD	**120**	**2,400**	< 50
	12/20/2006	< 5	NPD	< 10	**22**	**9,700**	*26*	< 8	< 20	< 8	< 7	< 8	NPD	**100**	**3,200**	NA
	11/2/2007	< 40	NPD	< 50	< 46	**9,500**	< 40	< 40	**633** JB	< 50	< 54	< 58	NPD	**107**	**3,710**	< 110
	11/5/2008	< 80	NPD	< 48	< 110	**14,800**	< 90	< 86	< 200	< 44	< 70	< 66	NPD	**231**	**3,690**	< 230
	7/25/2011	< 25	NPD	< 49	< 30	**9,800**	*94* J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	**50** J	**3,140**	< 95
	4/12/2012	< 25	NPD	< 49	< 30	**10,900**	*88* J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	**37** J	**2,500**	< 95
	7/6/2016	< 100	< 100	< 48.3	< 82	**22,600**	*77*	< 100	< 46.5	< 100	< 100	< 100	< 39.5	< 66.1	**6,930**	< 300
	5/24/2018	< 200	< 200	< 96.6	< 164	**20,000**	< 103	< 200	< 93.0	< 200	< 200	< 200	< 79.0	< 132	**5,130**	< 600
	11/8/2018	< 98.6	< 876	< 109	< 97.9	**19,400**	< 436	< 87.3	< 232	< 131	< 68.8	< 97.9	< 221	< 102	**3,540**	< 600
	5/7/2019	< 61.6	< 547	< 68.1	**83.0** J	**23,600**	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	**64.4** J	**6,730**	< 375
	11/8/2019	< 61.6	< 547	< 68.1	< 61.2	**15,000**	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	**71.2** J	**2,210**	< 375
MW-23	10/14/2004	*4*	NPD	< 0.5	**266**	**51,000**	**120**	25	< 0.5	*1*	32	< 0.5	NPD	**2,500**	**4,000**	13
	11/2/2005	< 25	NPD	< 25	**99**	**29,000**	**260**	< 25	< 25	< 25	19	< 25	NPD	**3,000**	**1,900**	< 25
	2/22/2006	< 1300	NPD	< 1300	< 1300	**34,000**	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	**1,800**	**2,000**	< 1300
	2/22/2006 (Dup)	< 1300	NPD	< 1300	< 1300	**34,000**	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	**2,500**	**2,200**	< 1300
	12/20/2006	< 10	NPD	< 20	**44**	**27,000**	*56*	< 16	< 40	< 16	< 14	< 16	NPD	**32**	**1,100**	NA
	11/2/2007	< 40	NPD	< 50	< 46	**20,300**	< 40	< 40	**536** JB	< 50	< 54	< 58	NPD	**866**	**2,870**	< 110
	11/5/2008	< 200	NPD	< 120	< 270	**23,400**	< 230	< 220	< 500	< 110	80	< 170	NPD	**5,370**	**2,390**	< 580
	7/25/2011	< 50	NPD	< 98	< 60	**13,100**	< 79	< 78	< 110	< 44	< 53	< 85	NPD	< 47	**1,490**	< 190
	4/12/2012	< 50	NPD	< 98	< 60	**8,400**	< 79	< 78	< 100	< 44	< 53	< 85	NPD	< 47	**1,200**	< 190
	7/6/2016	< 50	< 50	< 24.2	< 41	**9,840**	*42*	< 50	< 23.3	< 50	< 50	< 50	< 19.7	< 33.1	**1,340**	< 150
	5/23/2018	< 125	< 125	< 60.4	< 103	**19,000**	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	**2,000**	**1,330**	< 375
	11/7/2018	< 24.6	< 219	< 27.3	< 24.5	**8,930**	< 109	< 21.8	< 58.1	< 32.6	< 17.2	< 24.5	< 55.2	**114**	**1,160**	< 150
	5/6/2019	< 24.6	< 219	< 27.3	**34.4** J	**9,070**	< 109	< 21.8	< 58.1	< 32.6	< 17.2	< 24.5	< 55.2	**26.0** J	**1,330**	< 150
	11/8/2019	< 24.6	< 219	< 27.3	< 24.5	**7,650**	< 109	< 21.8	< 58.1	< 32.6	< 17.2	< 24.5	< 55.2	**27.9** J	**1,070**	< 150
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

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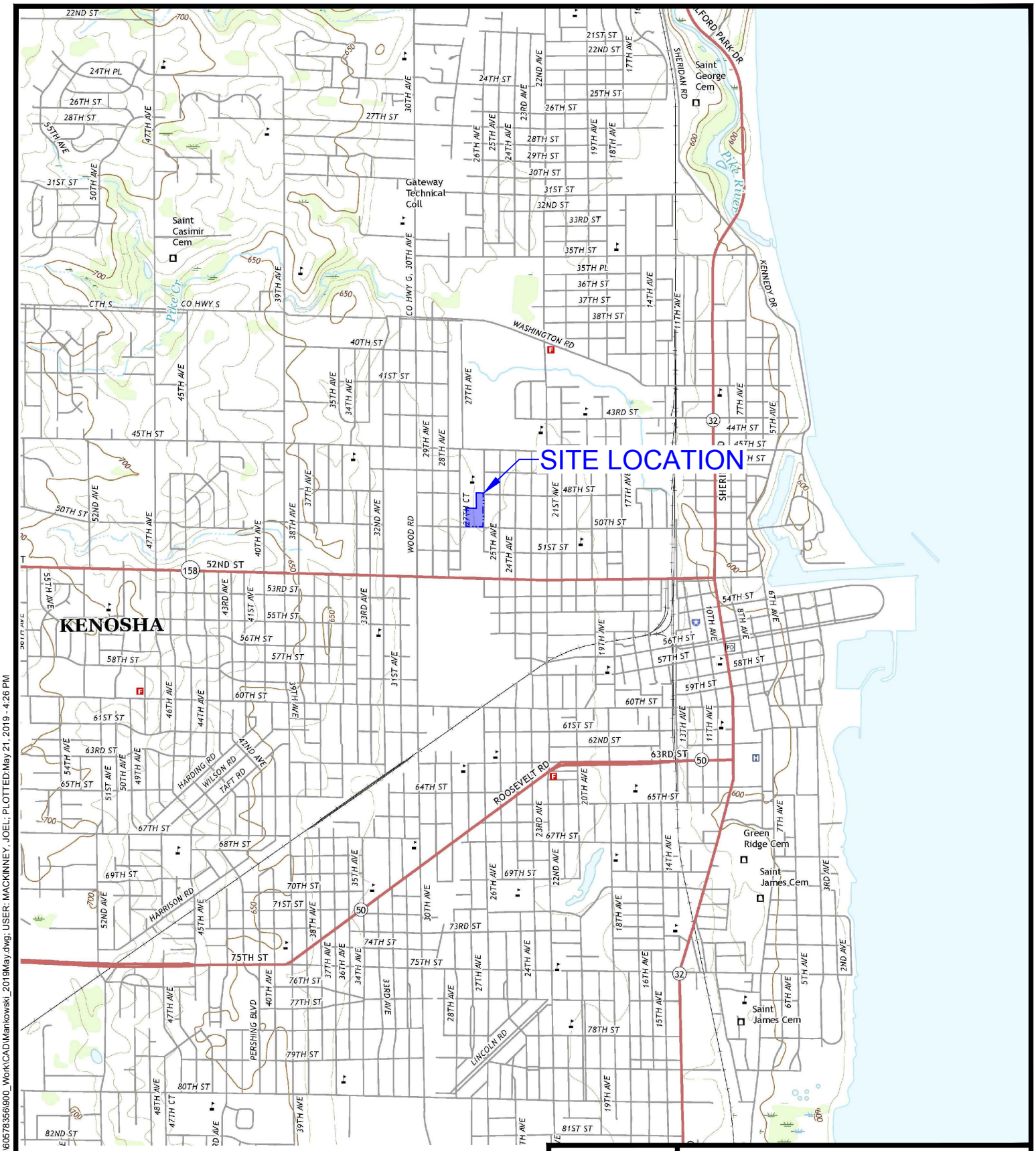
Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-24	10/14/2004	< 0.5	NPD	< 0.5	0	*22*	1	0	< 0.5	< 0.5	0	< 0.5	NPD	**55**	**2**	< 0.5
	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*1*	< 0.5	< 0.5
	11/2/2005 (Dup)	< 0.5	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*1*	**0**	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	*2*	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	1	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	*3*	< 1	NA
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	1	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	*3*	< 0.34	< 0.56
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	1	< 0.45	< 0.43	< 1	< 0.22	0	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	*16*	< 0.79	< 0.78	< 1.1	< 0.44	1	< 0.85	NPD	**14**	**1**	< 1.9
	7/12/2012	< 0.5	NPD	< 0.98	< 0.6	2	< 0.79	< 0.78	< 1.1	NA	1	< 0.85	NPD	**5**	**0.26** J	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	4	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	**8.5**	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	1.8	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**7.2**	< 0.17	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	0.97 J	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*4.1*	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	1.1	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*3.9*	< 0.17	< 1.5
MW-25	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	1	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0	**3**	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	*8*	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0	**9**	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	*18*	3	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	*4*	**4**	NA
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	*10*	1	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	*2*	**9**	< 0.56
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	*8*	1	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	*3*	**10**	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	*8*	1.92 J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	*4*	**42**	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	*8*	1.94 J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	*2*	**37**	< 1.9
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	*48*	10	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	**77.1**	**1.8**	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	*38.6*	4.6	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**15.2**	**23.2**	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	*45.6*	6.7	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**32.7**	**10.5**	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	0.31 J	**106**	9.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**14.3**	**6.4**	< 1.5
MW-26	11/2/2005	**15**	NPD	< 0.5	**180**	**7,400**	*86*	< 0.5	< 0.5	*1*	4	< 0.5	NPD	**5,600**	**1,500**	0
	2/22/2006	< 63	NPD	< 63	**31**	**2,100**	16	< 63	< 63	< 63	< 63	< 63	NPD	**930**	**980**	< 63
	12/20/2006	*1*	NPD	< 1	*4*	**210**	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	**120**	**77**	NA
	11/1/2007	*1*	NPD	< 0.25	*3*	**233**	2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	**85**	**195**	< 0.56
	11/5/2008	< 0.8	NPD	< 0.48	*2*	**138**	2	< 0.86	< 1	< 0.44	< 0.7	< 0.66	NPD	**69**	**62**	< 2.3
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	*55*	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**7**	**10**	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	*69*	1.4 J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**26**	**60**	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	**124**	2	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	*4*	**65**	< 1.5
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	**72.2**	2	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	*1.8*	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	*57.5*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*1.6*	**1.1**	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	*54.2*	1.2 J	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*2.1*	**0.57** J	< 1.5
	11/8/2019	< 0.25	< 2.2	< 0.27	< 0.24	*64.6*	1.6 J	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*1.6*	**0.72** J	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	1	1	160	40	1	1	0	400

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	Ethyl-benzene µg/L	Methylene Chloride µg/L	Tetrachloro-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-27	11/2/2005	**7**	NPD	< 0.5	**150**	**27,000**	**190**	0	< 0.5	< 0.5	7	< 0.5	NPD	< 630	**3,200**	5
	2/22/2006	< 630	NPD	< 630	< 630	**17,000**	< 630	< 630	< 630	< 630	< 630	< 630	NPD	**150**	**2,800**	< 630
	12/20/2006	< 5	NPD	< 10	**36**	**14,000**	*46*	< 8	< 20	< 8	< 7	< 8	NPD	**84**	**860**	NA
	11/1/2007	< 40	NPD	< 50	< 46	**16,400**	*67*	< 40	**486**	< 50	< 54	< 58	NPD	**79**	**2,300**	< 110
	11/5/2008	< 80	NPD	< 48	< 110	**17,300**	< 90	< 86	< 200	< 44	< 70	< 66	NPD	**64**	**2,080**	< 230
	7/25/2011	< 25	NPD	< 49	< 30	**10,200**	*55* J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	< 23.5	**1,340**	< 95
	4/12/2012	< 50	NPD	< 98	< 60	**10,300**	**112** J	< 78	< 110	< 44	< 53	< 85	NPD	< 47	**960**	< 190
	7/6/2016	< 50	< 50	< 24.2	< 41	**12,200**	*54*	< 50	< 23.3	< 50	< 50	< 50	< 19.7	**63**	**1,370**	< 150
	5/24/2018	< 100	< 100	< 48.3	< 82.0	**12,000**	*51.8* J	< 100	< 46.5	< 100	< 100	< 100	< 39.5	**127** J	**1,310**	< 300
	11/8/2018	< 49.3	< 438	< 54.5	< 49.0	**12,000**	< 218	< 43.6	< 116	< 65.3	< 34.4	< 49.0	< 110	**132** J	**1,260**	< 300
	5/7/2019	< 30.8	< 274	< 34.1	**46.0** J	**11,300**	< 136	< 27.3	< 72.6	< 40.8	< 21.5	< 30.6	< 69.0	**121** J	**1,250**	< 188
	11/8/2019	< 30.8	< 274	< 34.1	**34.4** J	**9,430**	< 136	< 27.3	< 72.6	< 40.8	< 21.5	< 30.6	< 69.0	**143**	**1,140**	< 188
MW-27 DUP	12/20/2006	< 5	NPD	< 10	**40**	**14,000**	*45*	< 8	< 20	< 8	< 7	< 8	NPD	**78**	**910**	NA
	5/24/2018	< 125	< 125	< 60.4	< 103	**12,600**	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	**151** J	**1,310**	< 375
	11/8/2018	< 61.6	< 547	< 68.1	< 61.2	**11,900**	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	**139** J	**1,290**	< 375
	5/7/2019	< 49.3	< 438	< 54.5	< 49.0	**11400**	< 218	< 43.6	< 116	< 65.3	< 34.4	< 49.0	< 110	**106** J	**1280**	< 300
	11/8/2019	< 24.6	< 219	< 27.3	**36.8** J	**9,430**	< 109	< 21.8	< 58.1	< 32.6	< 17.2	< 24.5	< 55.2	**144**	**1,210**	< 150
SMW-2	6/28/2005	< 1	NPD	< 1	< 1	0.36 J	< 1	< 1	*3.4*	< 1	0.24 J	< 1	NPD	**32**	< 1	< 1
	7/22/2011	< 0.5	NPD	< 0.5	< 0.98	6	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	**194**	< 0.18	< 1.9
	4/12/2012	< 2.5	NPD	< 4.9	< 3	*8.4* J	< 3.95	< 3.9	< 5.5	< 2.2	< 2.65	< 4.25	NPD	**162**	< 0.9	< 9.5
	7/5/2016	< 1.2	< 1.2	< 0.6	< 1	**314**	7	< 1.2	< 0.58	< 1.2	< 1.2	< 1.2	< 0.49	**15.1**	< 0.44	< 3.8
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	*50*	1.3	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	**31.7**	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	*28.5*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**28**	< 0.17	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	*22.8*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**16.4**	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	*20.8*	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	**22.5**	< 0.17	< 1.5
SMW-3	7/13/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	1.88	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	0.47	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	*2*	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*0.50* J	< 0.17	< 1.5
	5/6/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*1.1*	< 0.17	< 1.5
	11/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*1.3*	< 0.17	< 1.5
TW-1	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	3.3	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/8/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
TW-2	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	0.60 J	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	*2.1*	< 0.17	< 1.5
	5/7/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
	11/8/2019	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Notes: Pre-2012 data with a value of 0 reported for the concentration was provided in that format from the prior consultants. Original lab data not available to verify results.
DCE - Dichloroethene NPD - Not previously detected (historic data from prior consultants)
µg/L = micrograms per liter J - Estimated concentration between reporting limit and method detection limit.
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances are **Bold**.
NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are *Underlined Italics.*
Exceedances: BOLD = concentration exceeds Chapter NR 140 PAL
Data prior to 2016 was collected by prior consultants and the data quality/data quality qualifiers are carrried over from prior reports.



Notes:

1. TOPO map from http://store.usgs.gov
   Kenosha quadrangle, dated: 2016

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

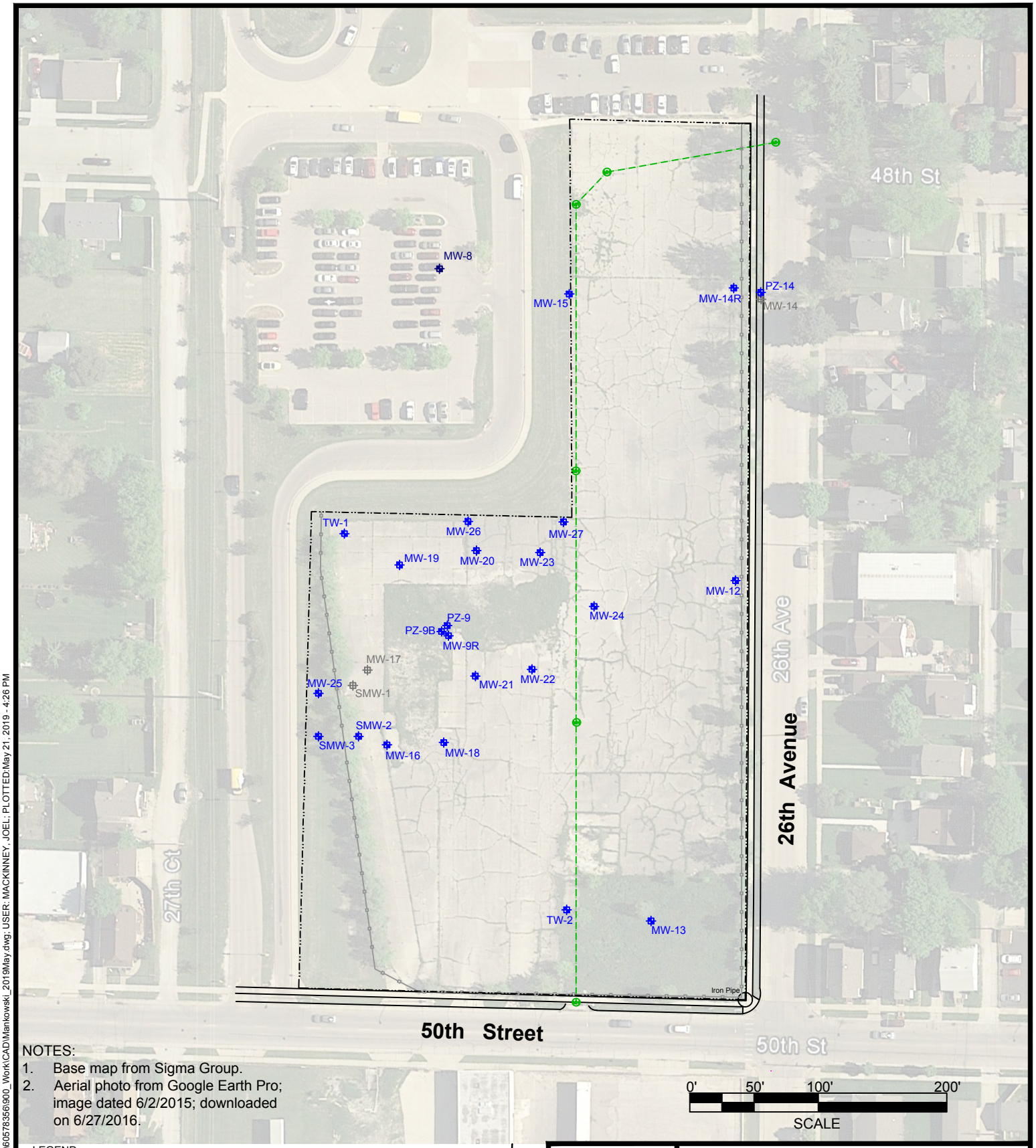
AECOM

Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

SITE LOCATION

Project Number:	Drawn By:	Date:	Figure No. 1
60578356	SAE/ANM	5/21/2019	

File: \\usmwk1fs001\prod\Data\Projects\60578356\900_Work\CAD\Mankowski_2019May.dwg; USER: MACKINNEY, JOEL; PLOTTED:May 21, 2019 - 4:26 PM



NOTES:
1. Base map from Sigma Group.
2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.

LEGEND:
- MONITORING WELL
- MONITORING WELL ABANDONED
- MONITORING WELL (NOT SAMPLED 2018)
- FENCE
- PROPERTY BOUNDARY
- 78-INCH STORM SEWER
- STORM SEWER MANHOLE

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Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

SITE LAYOUT

Project Number:	Drawn By:	Date:	Figure No. 2
60578356	SAE/ANM	5/21/2019	

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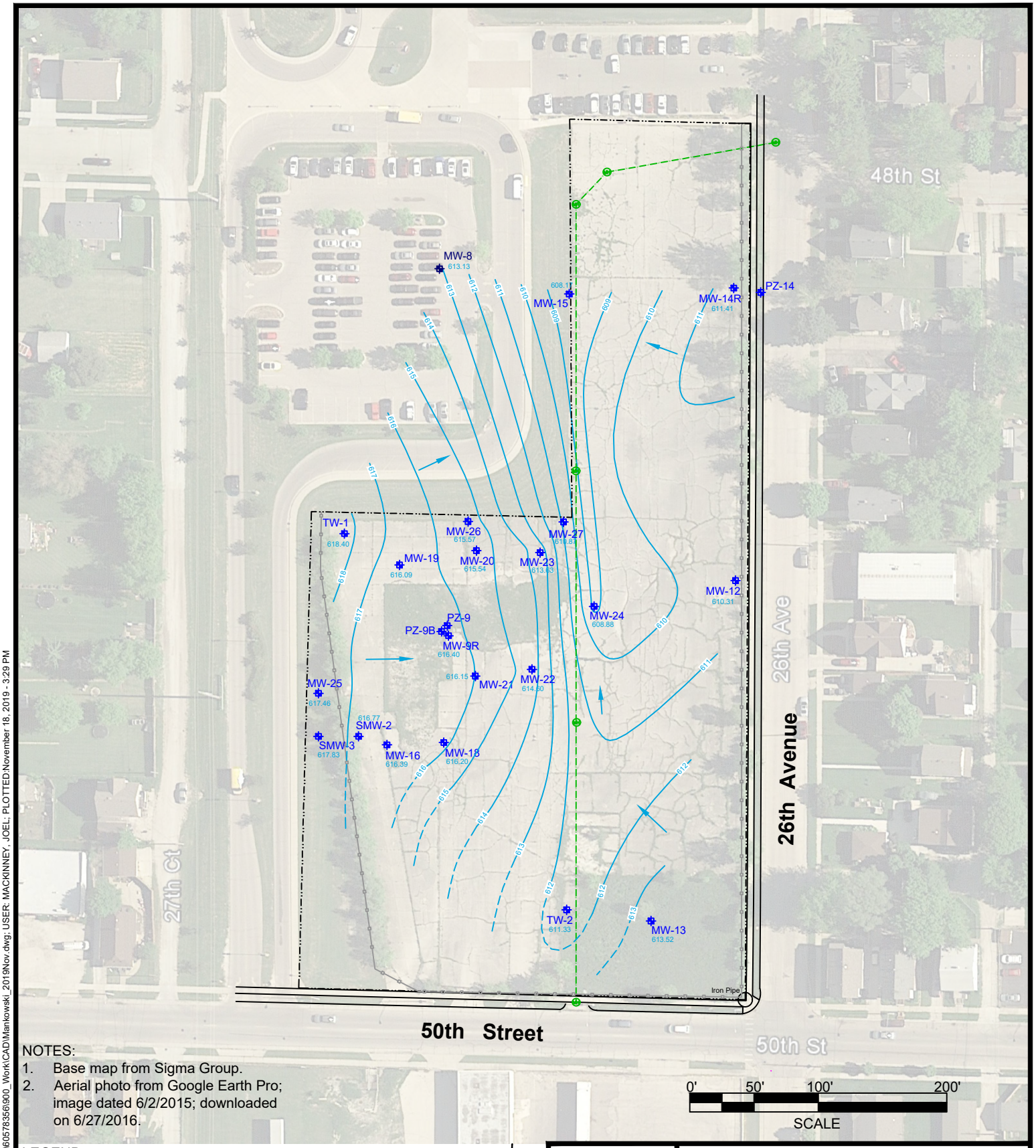

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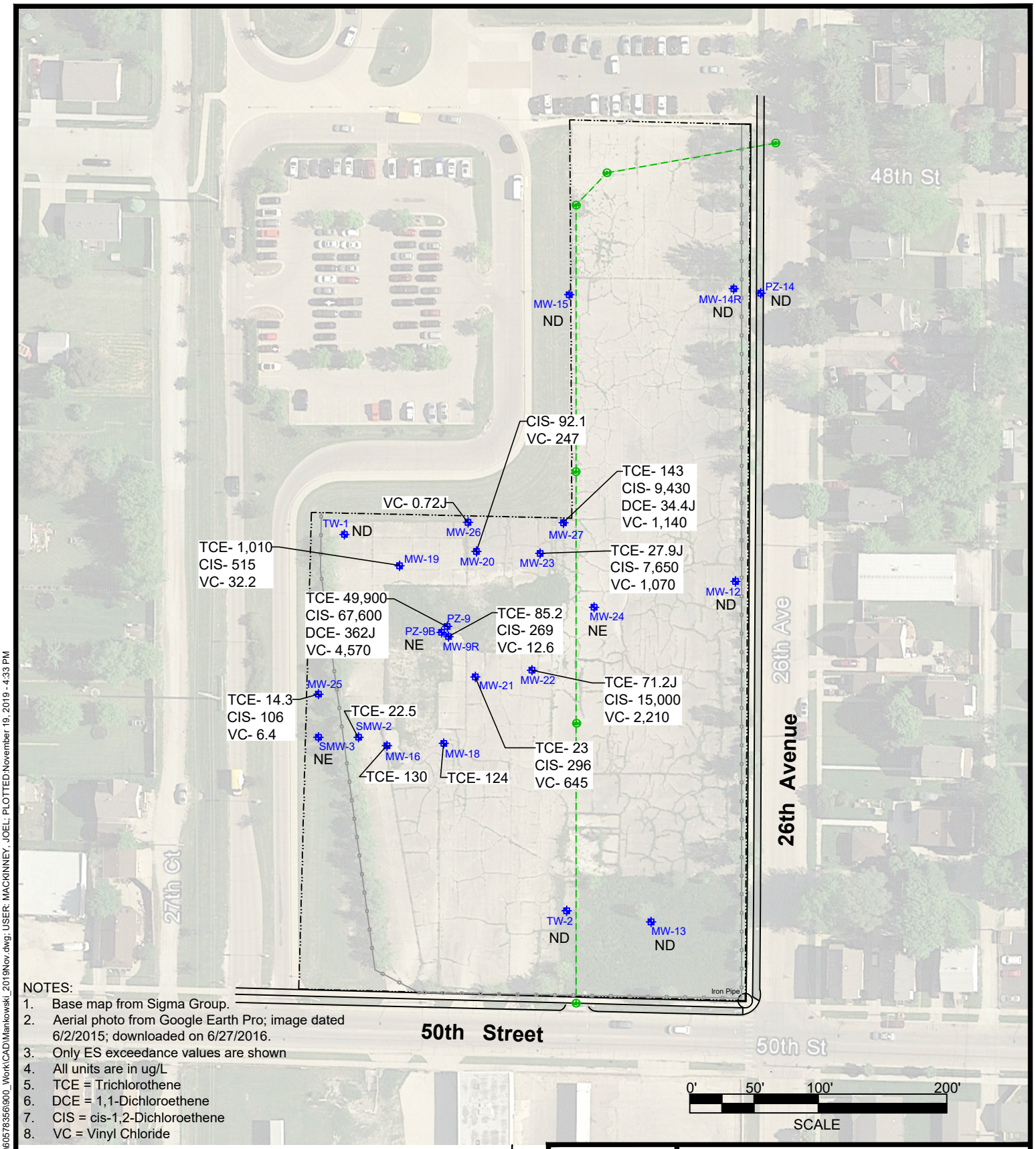
Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

WATER TABLE CONTOUR MAP
(NOVEMBER 2019)

Project Number:	Drawn By:	Date:	Figure No. 3
60578356	JSM	11/18/2019	



NOTES:
1. Base map from Sigma Group.
2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.
3. Only ES exceedance values are shown
4. All units are in ug/L
5. TCE = Trichlorothene
6. DCE = 1,1-Dichloroethene
7. CIS = cis-1,2-Dichloroethene
8. VC = Vinyl Chloride

LEGEND:
- FENCE
- PROPERTY BOUNDARY
- 78-INCH STORM SEWER
- STORM SEWER MANHOLE
- MONITORING WELL

J ESTIMATED CONCENTRATION BETWEEN REPORTING LIMIT AND METHOD DETECTION LIMIT

ND NO DETECTS

NE NO NR 140 ES EXCEEDANCES

N

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Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

GROUNDWATER ANALYTICAL SUMMARY
ES EXCEEDANCES
(November 2019)

Project Number:	Drawn By:	Date:	Figure No. 4
60578356	JSM	11/19/2019	

File: \\usmwk1fs001\prod\Data\Projects\60578356\900_Work\CAD\Mankowski_2019Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED:November 19, 2019 - 4:33 PM

FIGURE 5
MW-9R TCE Concentrations and Groundwater Elevations over Time

Revised 11/20/2019

FIGURE 6
PZ-9 TCE Concentrations and Groundwater Elevations over Time

Revised 11/20/2019

FIGURE 7
MW-19 TCE Concentrations and Groundwater Elevations over Time

Revised 11/20/2019

FIGURE 8
MW-21 TCE Concentrations and Groundwater Elevations over Time

Revised 11/20/2019

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 15, 2019

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Joel Mackinney, AECOM

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Green Bay Certification IDs

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199026001	TRIP BLANK	Water	11/07/19 09:40	11/12/19 09:25
40199026002	MW-25	Water	11/07/19 10:25	11/12/19 09:25
40199026003	SMW-3	Water	11/07/19 10:30	11/12/19 09:25
40199026004	SMW-2	Water	11/07/19 12:00	11/12/19 09:25
40199026005	MW-16	Water	11/07/19 12:05	11/12/19 09:25
40199026006	MW-24	Water	11/07/19 13:25	11/12/19 09:25
40199026007	MW-13	Water	11/07/19 13:40	11/12/19 09:25
40199026008	MW-12	Water	11/07/19 14:15	11/12/19 09:25
40199026009	MW-14R	Water	11/07/19 14:30	11/12/19 09:25
40199026010	MW-15	Water	11/07/19 15:05	11/12/19 09:25
40199026011	PZ-14	Water	11/07/19 15:10	11/12/19 09:25
40199026012	TW-2	Water	11/08/19 07:40	11/12/19 09:25
40199026013	TW-1	Water	11/08/19 08:00	11/12/19 09:25
40199026014	MW-26	Water	11/08/19 08:40	11/12/19 09:25
40199026015	PZ-9B	Water	11/08/19 09:00	11/12/19 09:25
40199026016	MW-18	Water	11/08/19 09:30	11/12/19 09:25
40199026017	MW-20	Water	11/08/19 10:00	11/12/19 09:25
40199026018	MW-21	Water	11/08/19 10:10	11/12/19 09:25
40199026019	MW-19	Water	11/08/19 11:10	11/12/19 09:25
40199026020	MW-19D	Water	11/08/19 11:10	11/12/19 09:25
40199026021	MW-23	Water	11/08/19 11:15	11/12/19 09:25
40199026022	MW-27	Water	11/08/19 12:00	11/12/19 09:25
40199026023	MW-27D	Water	11/08/19 12:00	11/12/19 09:25
40199026024	MW-9R	Water	11/08/19 12:05	11/12/19 09:25
40199026025	MW-22	Water	11/08/19 12:45	11/12/19 09:25
40199026026	PZ-9	Water	11/08/19 12:50	11/12/19 09:25

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SAMPLE ANALYTE COUNT

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199026001	TRIP BLANK	EPA 8260	LAP	65	PASI-G
40199026002	MW-25	EPA 8260	LAP	65	PASI-G
40199026003	SMW-3	EPA 8260	LAP	65	PASI-G
40199026004	SMW-2	EPA 8260	LAP	65	PASI-G
40199026005	MW-16	EPA 8260	LAP	65	PASI-G
40199026006	MW-24	EPA 8260	LAP	65	PASI-G
40199026007	MW-13	EPA 8260	LAP	65	PASI-G
40199026008	MW-12	EPA 8260	LAP	65	PASI-G
40199026009	MW-14R	EPA 8260	LAP	65	PASI-G
40199026010	MW-15	EPA 8260	LAP	65	PASI-G
40199026011	PZ-14	EPA 8260	LAP	65	PASI-G
40199026012	TW-2	EPA 8260	LAP	65	PASI-G
40199026013	TW-1	EPA 8260	LAP	65	PASI-G
40199026014	MW-26	EPA 8260	LAP	65	PASI-G
40199026015	PZ-9B	EPA 8260	LAP	65	PASI-G
40199026016	MW-18	EPA 8260	LAP	65	PASI-G
40199026017	MW-20	EPA 8260	LAP	65	PASI-G
40199026018	MW-21	EPA 8260	LAP	65	PASI-G
40199026019	MW-19	EPA 8260	LAP	65	PASI-G
40199026020	MW-19D	EPA 8260	LAP	65	PASI-G
40199026021	MW-23	EPA 8260	LAP	65	PASI-G
40199026022	MW-27	EPA 8260	LAP	65	PASI-G
40199026023	MW-27D	EPA 8260	LAP	65	PASI-G
40199026024	MW-9R	EPA 8260	LAP	65	PASI-G
40199026025	MW-22	EPA 8260	LAP	65	PASI-G
40199026026	PZ-9	EPA 8260	LAP	65	PASI-G

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199026002	**MW-25**					
EPA 8260	1,1-Dichloroethene	0.31J	ug/L	1.0	11/14/19 13:11	
EPA 8260	cis-1,2-Dichloroethene	106	ug/L	1.0	11/14/19 13:11	
EPA 8260	trans-1,2-Dichloroethene	9.1	ug/L	3.6	11/14/19 13:11	
EPA 8260	Trichloroethene	14.3	ug/L	1.0	11/14/19 13:11	
EPA 8260	Vinyl chloride	6.4	ug/L	1.0	11/14/19 13:11	
40199026003	**SMW-3**					
EPA 8260	Trichloroethene	1.3	ug/L	1.0	11/14/19 10:38	
40199026004	**SMW-2**					
EPA 8260	cis-1,2-Dichloroethene	20.8	ug/L	1.0	11/14/19 13:33	
EPA 8260	Trichloroethene	22.5	ug/L	1.0	11/14/19 13:33	
40199026005	**MW-16**					
EPA 8260	cis-1,2-Dichloroethene	32.2	ug/L	1.0	11/14/19 13:54	
EPA 8260	Trichloroethene	130	ug/L	1.0	11/14/19 13:54	
40199026006	**MW-24**					
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	11/14/19 17:11	
EPA 8260	Trichloroethene	3.9	ug/L	1.0	11/14/19 17:11	
40199026014	**MW-26**					
EPA 8260	cis-1,2-Dichloroethene	64.6	ug/L	1.0	11/14/19 17:32	
EPA 8260	trans-1,2-Dichloroethene	1.6J	ug/L	3.6	11/14/19 17:32	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	11/14/19 17:32	
EPA 8260	Vinyl chloride	0.72J	ug/L	1.0	11/14/19 17:32	
40199026015	**PZ-9B**					
EPA 8260	cis-1,2-Dichloroethene	2.7	ug/L	1.0	11/14/19 17:54	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	11/14/19 17:54	
40199026016	**MW-18**					
EPA 8260	cis-1,2-Dichloroethene	20.6	ug/L	1.0	11/14/19 18:16	
EPA 8260	Trichloroethene	124	ug/L	1.0	11/14/19 18:16	
40199026017	**MW-20**					
EPA 8260	cis-1,2-Dichloroethene	92.1	ug/L	5.0	11/14/19 15:22	
EPA 8260	Vinyl chloride	247	ug/L	5.0	11/14/19 15:22	
40199026018	**MW-21**					
EPA 8260	1,1-Dichloroethene	0.64J	ug/L	2.0	11/14/19 15:00	
EPA 8260	cis-1,2-Dichloroethene	296	ug/L	2.0	11/14/19 15:00	
EPA 8260	Trichloroethene	23.0	ug/L	2.0	11/14/19 15:00	
EPA 8260	Vinyl chloride	645	ug/L	10.0	11/15/19 03:22	
40199026019	**MW-19**					
EPA 8260	Benzene	2.5J	ug/L	10.0	11/14/19 14:38	
EPA 8260	cis-1,2-Dichloroethene	515	ug/L	10.0	11/14/19 14:38	
EPA 8260	trans-1,2-Dichloroethene	44.2	ug/L	36.4	11/14/19 14:38	
EPA 8260	Trichloroethene	1010	ug/L	10.0	11/14/19 14:38	
EPA 8260	Vinyl chloride	32.2	ug/L	10.0	11/14/19 14:38	

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199026020	**MW-19D**					
EPA 8260	cis-1,2-Dichloroethene	478	ug/L	10.0	11/14/19 14:16	
EPA 8260	trans-1,2-Dichloroethene	56.2	ug/L	36.4	11/14/19 14:16	
EPA 8260	Trichloroethene	958	ug/L	10.0	11/14/19 14:16	
EPA 8260	Vinyl chloride	26.8	ug/L	10.0	11/14/19 14:16	
40199026021	**MW-23**					
EPA 8260	cis-1,2-Dichloroethene	7650	ug/L	100	11/15/19 02:51	
EPA 8260	Trichloroethene	27.9J	ug/L	100	11/15/19 02:51	
EPA 8260	Vinyl chloride	1070	ug/L	100	11/15/19 02:51	
40199026022	**MW-27**					
EPA 8260	1,1-Dichloroethene	34.4J	ug/L	125	11/15/19 03:13	
EPA 8260	cis-1,2-Dichloroethene	9430	ug/L	125	11/15/19 03:13	
EPA 8260	Trichloroethene	143	ug/L	125	11/15/19 03:13	
EPA 8260	Vinyl chloride	1140	ug/L	125	11/15/19 03:13	
40199026023	**MW-27D**					
EPA 8260	1,1-Dichloroethene	36.8J	ug/L	100	11/15/19 07:09	
EPA 8260	cis-1,2-Dichloroethene	9430	ug/L	100	11/15/19 07:09	
EPA 8260	Trichloroethene	144	ug/L	100	11/15/19 07:09	
EPA 8260	Vinyl chloride	1210	ug/L	100	11/15/19 07:09	
40199026024	**MW-9R**					
EPA 8260	1,1-Dichloroethene	1.2J	ug/L	4.0	11/15/19 06:42	
EPA 8260	cis-1,2-Dichloroethene	269	ug/L	4.0	11/15/19 06:42	
EPA 8260	Trichloroethene	85.2	ug/L	4.0	11/15/19 06:42	
EPA 8260	Vinyl chloride	12.6	ug/L	4.0	11/15/19 06:42	
40199026025	**MW-22**					
EPA 8260	cis-1,2-Dichloroethene	15000	ug/L	250	11/15/19 01:44	
EPA 8260	Trichloroethene	71.2J	ug/L	250	11/15/19 01:44	
EPA 8260	Vinyl chloride	2210	ug/L	250	11/15/19 01:44	
40199026026	**PZ-9**					
EPA 8260	1,1-Dichloroethene	362J	ug/L	1000	11/15/19 02:06	
EPA 8260	cis-1,2-Dichloroethene	67600	ug/L	1000	11/15/19 02:06	
EPA 8260	Trichloroethene	49900	ug/L	1000	11/15/19 02:06	
EPA 8260	Vinyl chloride	4570	ug/L	1000	11/15/19 02:06	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TRIP BLANK **Lab ID: 40199026001** Collected: 11/07/19 09:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 09:54	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 09:54	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 09:54	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 09:54	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 09:54	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 09:54	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 09:54	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 09:54	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 09:54	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 09:54	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 09:54	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 09:54	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 09:54	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 09:54	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 09:54	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 09:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 09:54	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 09:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 09:54	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 09:54	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 09:54	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 09:54	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 09:54	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 09:54	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 09:54	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 09:54	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 09:54	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 09:54	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 09:54	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 09:54	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 09:54	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 09:54	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 09:54	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 09:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 09:54	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 09:54	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 09:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 09:54	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 09:54	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 09:54	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 09:54	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 09:54	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 09:54	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 09:54	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 09:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 09:54	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TRIP BLANK **Lab ID: 40199026001** Collected: 11/07/19 09:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 09:54	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 09:54	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 09:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 09:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 09:54	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 09:54	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 09:54	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 09:54	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 09:54	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 09:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 09:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 09:54	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 09:54	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 09:54	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 09:54	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 09:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		11/14/19 09:54	460-00-4	
Dibromofluoromethane (S)	89	%	70-130		1		11/14/19 09:54	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/19 09:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-25 **Lab ID: 40199026002** Collected: 11/07/19 10:25 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 13:11	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:11	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 13:11	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 13:11	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 13:11	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 13:11	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:11	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 13:11	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 13:11	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 13:11	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:11	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:11	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:11	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 13:11	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 13:11	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 13:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 13:11	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 13:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:11	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:11	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:11	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 13:11	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:11	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 13:11	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:11	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:11	107-06-2	
1,1-Dichloroethene	**0.31J**	ug/L	1.0	0.24	1		11/14/19 13:11	75-35-4	
cis-1,2-Dichloroethene	**106**	ug/L	1.0	0.27	1		11/14/19 13:11	156-59-2	
trans-1,2-Dichloroethene	**9.1**	ug/L	3.6	1.1	1		11/14/19 13:11	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:11	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:11	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 13:11	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 13:11	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 13:11	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 13:11	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 13:11	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 13:11	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:11	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 13:11	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 13:11	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 13:11	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 13:11	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:11	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 13:11	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 13:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:11	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-25 **Lab ID: 40199026002** Collected: 11/07/19 10:25 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:11	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 13:11	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 13:11	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 13:11	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 13:11	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:11	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 13:11	79-00-5	
Trichloroethene	**14.3**	ug/L	1.0	0.26	1		11/14/19 13:11	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 13:11	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 13:11	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 13:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 13:11	108-67-8	
Vinyl chloride	**6.4**	ug/L	1.0	0.17	1		11/14/19 13:11	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 13:11	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 13:11	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 13:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/14/19 13:11	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/14/19 13:11	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/19 13:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: SMW-3 **Lab ID: 40199026003** Collected: 11/07/19 10:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 10:38	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 10:38	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 10:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 10:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 10:38	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:38	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 10:38	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 10:38	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 10:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 10:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 10:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 10:38	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 10:38	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 10:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 10:38	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 10:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 10:38	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 10:38	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:38	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 10:38	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 10:38	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 10:38	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:38	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:38	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:38	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:38	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 10:38	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:38	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 10:38	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 10:38	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 10:38	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 10:38	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 10:38	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 10:38	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 10:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 10:38	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 10:38	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 10:38	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 10:38	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 10:38	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 10:38	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 10:38	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 10:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:38	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: SMW-3 **Lab ID: 40199026003** Collected: 11/07/19 10:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:38	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 10:38	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 10:38	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 10:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 10:38	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:38	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 10:38	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	0.26	1		11/14/19 10:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 10:38	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 10:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 10:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 10:38	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 10:38	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 10:38	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 10:38	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 10:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/14/19 10:38	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/14/19 10:38	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/14/19 10:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: SMW-2 **Lab ID: 40199026004** Collected: 11/07/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 13:33	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:33	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 13:33	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 13:33	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 13:33	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 13:33	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:33	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 13:33	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 13:33	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 13:33	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:33	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:33	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:33	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 13:33	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 13:33	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 13:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 13:33	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 13:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:33	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:33	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:33	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 13:33	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:33	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 13:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:33	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:33	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:33	75-35-4	
cis-1,2-Dichloroethene	**20.8**	ug/L	1.0	0.27	1		11/14/19 13:33	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 13:33	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:33	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:33	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 13:33	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 13:33	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 13:33	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 13:33	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 13:33	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 13:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:33	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 13:33	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 13:33	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 13:33	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 13:33	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:33	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 13:33	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 13:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:33	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: SMW-2 **Lab ID: 40199026004** Collected: 11/07/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:33	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 13:33	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 13:33	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 13:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 13:33	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:33	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 13:33	79-00-5	
Trichloroethene	**22.5**	ug/L	1.0	0.26	1		11/14/19 13:33	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 13:33	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 13:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 13:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 13:33	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 13:33	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 13:33	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 13:33	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 13:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		11/14/19 13:33	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		11/14/19 13:33	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/14/19 13:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-16 **Lab ID: 40199026005** Collected: 11/07/19 12:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 13:54	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:54	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 13:54	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 13:54	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 13:54	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 13:54	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:54	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 13:54	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 13:54	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 13:54	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:54	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:54	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 13:54	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 13:54	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 13:54	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 13:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 13:54	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 13:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:54	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:54	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 13:54	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 13:54	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 13:54	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 13:54	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:54	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:54	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:54	75-35-4	
cis-1,2-Dichloroethene	**32.2**	ug/L	1.0	0.27	1		11/14/19 13:54	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 13:54	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:54	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 13:54	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 13:54	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 13:54	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 13:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 13:54	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 13:54	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 13:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:54	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 13:54	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 13:54	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 13:54	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 13:54	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 13:54	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 13:54	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 13:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 13:54	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-16 **Lab ID: 40199026005** Collected: 11/07/19 12:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 13:54	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 13:54	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 13:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 13:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 13:54	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 13:54	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 13:54	79-00-5	
Trichloroethene	**130**	ug/L	1.0	0.26	1		11/14/19 13:54	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 13:54	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 13:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 13:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 13:54	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 13:54	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 13:54	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 13:54	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 13:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		11/14/19 13:54	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/14/19 13:54	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/19 13:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-24 **Lab ID: 40199026006** Collected: 11/07/19 13:25 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 17:11	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:11	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 17:11	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 17:11	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 17:11	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 17:11	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:11	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 17:11	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 17:11	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 17:11	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:11	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:11	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:11	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 17:11	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 17:11	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 17:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 17:11	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 17:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:11	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:11	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:11	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 17:11	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:11	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 17:11	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:11	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:11	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:11	75-35-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.27	1		11/14/19 17:11	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 17:11	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:11	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:11	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 17:11	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 17:11	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 17:11	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 17:11	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 17:11	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 17:11	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:11	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 17:11	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 17:11	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 17:11	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 17:11	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:11	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 17:11	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:11	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-24 **Lab ID: 40199026006** Collected: 11/07/19 13:25 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:11	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 17:11	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 17:11	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 17:11	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 17:11	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:11	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 17:11	79-00-5	
Trichloroethene	**3.9**	ug/L	1.0	0.26	1		11/14/19 17:11	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 17:11	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 17:11	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 17:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 17:11	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 17:11	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 17:11	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 17:11	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 17:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		11/14/19 17:11	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/14/19 17:11	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/14/19 17:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-13 **Lab ID: 40199026007** Collected: 11/07/19 13:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 10:16	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:16	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 10:16	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 10:16	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 10:16	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 10:16	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:16	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 10:16	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 10:16	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 10:16	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:16	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 10:16	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 10:16	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 10:16	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 10:16	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 10:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 10:16	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 10:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 10:16	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 10:16	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 10:16	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 10:16	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 10:16	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 10:16	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:16	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:16	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:16	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:16	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 10:16	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:16	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 10:16	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 10:16	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 10:16	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 10:16	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 10:16	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 10:16	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 10:16	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 10:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 10:16	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 10:16	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 10:16	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 10:16	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 10:16	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 10:16	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 10:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 10:16	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-13 **Lab ID: 40199026007** Collected: 11/07/19 13:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 10:16	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 10:16	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 10:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 10:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 10:16	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 10:16	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 10:16	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 10:16	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 10:16	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 10:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 10:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 10:16	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 10:16	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 10:16	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 10:16	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 10:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		11/14/19 10:16	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/14/19 10:16	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/14/19 10:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-12 **Lab ID: 40199026008** Collected: 11/07/19 14:15 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 11:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 11:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 11:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 11:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 11:00	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:00	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 11:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 11:00	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 11:00	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 11:00	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 11:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 11:00	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 11:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:00	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:00	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:00	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 11:00	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:00	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 11:00	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:00	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:00	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:00	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:00	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 11:00	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:00	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:00	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 11:00	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 11:00	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 11:00	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 11:00	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 11:00	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 11:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 11:00	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 11:00	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 11:00	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 11:00	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:00	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 11:00	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 11:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-12 **Lab ID: 40199026008** Collected: 11/07/19 14:15 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:00	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 11:00	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 11:00	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 11:00	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 11:00	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:00	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 11:00	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 11:00	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 11:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 11:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 11:00	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:00	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 11:00	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 11:00	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		11/14/19 11:00	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/14/19 11:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/14/19 11:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-14R **Lab ID: 40199026009** Collected: 11/07/19 14:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 11:21	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:21	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 11:21	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 11:21	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 11:21	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 11:21	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:21	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 11:21	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 11:21	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:21	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:21	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:21	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:21	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 11:21	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 11:21	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 11:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 11:21	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 11:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:21	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:21	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:21	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 11:21	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:21	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 11:21	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:21	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:21	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:21	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:21	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 11:21	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:21	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:21	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 11:21	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 11:21	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 11:21	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 11:21	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 11:21	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 11:21	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 11:21	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 11:21	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 11:21	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 11:21	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:21	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 11:21	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 11:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:21	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-14R **Lab ID: 40199026009** Collected: 11/07/19 14:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:21	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 11:21	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 11:21	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 11:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 11:21	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:21	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 11:21	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:21	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 11:21	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 11:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 11:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 11:21	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:21	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 11:21	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 11:21	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/14/19 11:21	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/14/19 11:21	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/14/19 11:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-15 **Lab ID: 40199026010** Collected: 11/07/19 15:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 11:43	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:43	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 11:43	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 11:43	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 11:43	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 11:43	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:43	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 11:43	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 11:43	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:43	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:43	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:43	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 11:43	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 11:43	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 11:43	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 11:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 11:43	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 11:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:43	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:43	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 11:43	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 11:43	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 11:43	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 11:43	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:43	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:43	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:43	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:43	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 11:43	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:43	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 11:43	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 11:43	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 11:43	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 11:43	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 11:43	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 11:43	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 11:43	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:43	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 11:43	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 11:43	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 11:43	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 11:43	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 11:43	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 11:43	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 11:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 11:43	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-15 **Lab ID: 40199026010** Collected: 11/07/19 15:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 11:43	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 11:43	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 11:43	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 11:43	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 11:43	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 11:43	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 11:43	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:43	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 11:43	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 11:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 11:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 11:43	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 11:43	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 11:43	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 11:43	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 11:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		11/14/19 11:43	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/14/19 11:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/14/19 11:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-14 **Lab ID: 40199026011** Collected: 11/07/19 15:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 12:05	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:05	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 12:05	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 12:05	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 12:05	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 12:05	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:05	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 12:05	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 12:05	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:05	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:05	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:05	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:05	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 12:05	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 12:05	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 12:05	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 12:05	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 12:05	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:05	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:05	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:05	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 12:05	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:05	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 12:05	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:05	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:05	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:05	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:05	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 12:05	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:05	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:05	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 12:05	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 12:05	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 12:05	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 12:05	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 12:05	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 12:05	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:05	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 12:05	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 12:05	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 12:05	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 12:05	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:05	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 12:05	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 12:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:05	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-14 **Lab ID: 40199026011** Collected: 11/07/19 15:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:05	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 12:05	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 12:05	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 12:05	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 12:05	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:05	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 12:05	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:05	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 12:05	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 12:05	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 12:05	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 12:05	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:05	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 12:05	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 12:05	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/14/19 12:05	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/14/19 12:05	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/19 12:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TW-2 **Lab ID: 40199026012** Collected: 11/08/19 07:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 12:27	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:27	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 12:27	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 12:27	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 12:27	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 12:27	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:27	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 12:27	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 12:27	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:27	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:27	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:27	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:27	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 12:27	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 12:27	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 12:27	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 12:27	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 12:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:27	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:27	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:27	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 12:27	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:27	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 12:27	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:27	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:27	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:27	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:27	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 12:27	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:27	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:27	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 12:27	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 12:27	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 12:27	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 12:27	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 12:27	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 12:27	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:27	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 12:27	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 12:27	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 12:27	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 12:27	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:27	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 12:27	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 12:27	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:27	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TW-2 **Lab ID: 40199026012** Collected: 11/08/19 07:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:27	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 12:27	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 12:27	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 12:27	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 12:27	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:27	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 12:27	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:27	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 12:27	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 12:27	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 12:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 12:27	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:27	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 12:27	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 12:27	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/14/19 12:27	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		11/14/19 12:27	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/14/19 12:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TW-1 **Lab ID: 40199026013** Collected: 11/08/19 08:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 12:49	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:49	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 12:49	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 12:49	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 12:49	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 12:49	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:49	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 12:49	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 12:49	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:49	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:49	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:49	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 12:49	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 12:49	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 12:49	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 12:49	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 12:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:49	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:49	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 12:49	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 12:49	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 12:49	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 12:49	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:49	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:49	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:49	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:49	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 12:49	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:49	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 12:49	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 12:49	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 12:49	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 12:49	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 12:49	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 12:49	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 12:49	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 12:49	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 12:49	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 12:49	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 12:49	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 12:49	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 12:49	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 12:49	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: TW-1 **Lab ID: 40199026013** Collected: 11/08/19 08:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 12:49	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 12:49	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 12:49	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 12:49	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 12:49	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 12:49	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 12:49	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:49	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 12:49	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 12:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 12:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 12:49	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 12:49	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 12:49	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 12:49	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 12:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/14/19 12:49	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/14/19 12:49	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/14/19 12:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-26 **Lab ID: 40199026014** Collected: 11/08/19 08:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 17:32	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:32	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 17:32	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 17:32	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 17:32	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 17:32	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:32	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 17:32	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 17:32	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 17:32	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:32	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:32	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:32	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 17:32	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 17:32	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 17:32	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 17:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:32	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:32	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:32	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 17:32	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:32	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 17:32	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:32	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:32	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:32	75-35-4	
cis-1,2-Dichloroethene	**64.6**	ug/L	1.0	0.27	1		11/14/19 17:32	156-59-2	
trans-1,2-Dichloroethene	**1.6J**	ug/L	3.6	1.1	1		11/14/19 17:32	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:32	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:32	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 17:32	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 17:32	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 17:32	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 17:32	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 17:32	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 17:32	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:32	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 17:32	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 17:32	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 17:32	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 17:32	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:32	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 17:32	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 17:32	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:32	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-26 **Lab ID: 40199026014** Collected: 11/08/19 08:40 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:32	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 17:32	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 17:32	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 17:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 17:32	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:32	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 17:32	79-00-5	
Trichloroethene	**1.6**	ug/L	1.0	0.26	1		11/14/19 17:32	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 17:32	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 17:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 17:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 17:32	108-67-8	
Vinyl chloride	**0.72J**	ug/L	1.0	0.17	1		11/14/19 17:32	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 17:32	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 17:32	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 17:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/14/19 17:32	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/14/19 17:32	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		11/14/19 17:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-9B **Lab ID: 40199026015** Collected: 11/08/19 09:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 17:54	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:54	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 17:54	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 17:54	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 17:54	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 17:54	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:54	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 17:54	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 17:54	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 17:54	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:54	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:54	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 17:54	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 17:54	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 17:54	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 17:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 17:54	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 17:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:54	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:54	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 17:54	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 17:54	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 17:54	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 17:54	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:54	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:54	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:54	75-35-4	
cis-1,2-Dichloroethene	**2.7**	ug/L	1.0	0.27	1		11/14/19 17:54	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 17:54	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:54	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 17:54	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 17:54	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 17:54	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 17:54	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 17:54	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 17:54	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 17:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:54	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 17:54	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 17:54	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 17:54	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 17:54	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 17:54	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 17:54	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 17:54	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-9B **Lab ID: 40199026015** Collected: 11/08/19 09:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 17:54	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 17:54	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 17:54	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 17:54	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 17:54	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 17:54	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 17:54	79-00-5	
Trichloroethene	**2.1**	ug/L	1.0	0.26	1		11/14/19 17:54	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 17:54	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 17:54	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 17:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 17:54	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 17:54	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 17:54	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 17:54	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 17:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/14/19 17:54	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/14/19 17:54	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		11/14/19 17:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-18 **Lab ID: 40199026016** Collected: 11/08/19 09:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/14/19 18:16	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 18:16	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		11/14/19 18:16	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		11/14/19 18:16	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		11/14/19 18:16	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		11/14/19 18:16	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 18:16	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		11/14/19 18:16	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		11/14/19 18:16	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 18:16	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 18:16	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		11/14/19 18:16	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		11/14/19 18:16	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		11/14/19 18:16	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		11/14/19 18:16	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		11/14/19 18:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		11/14/19 18:16	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		11/14/19 18:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		11/14/19 18:16	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		11/14/19 18:16	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		11/14/19 18:16	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		11/14/19 18:16	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		11/14/19 18:16	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		11/14/19 18:16	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 18:16	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 18:16	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		11/14/19 18:16	75-35-4	
cis-1,2-Dichloroethene	**20.6**	ug/L	1.0	0.27	1		11/14/19 18:16	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		11/14/19 18:16	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 18:16	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		11/14/19 18:16	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		11/14/19 18:16	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		11/14/19 18:16	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		11/14/19 18:16	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		11/14/19 18:16	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		11/14/19 18:16	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/14/19 18:16	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 18:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		11/14/19 18:16	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		11/14/19 18:16	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		11/14/19 18:16	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/14/19 18:16	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/14/19 18:16	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		11/14/19 18:16	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		11/14/19 18:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		11/14/19 18:16	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-18 **Lab ID: 40199026016** Collected: 11/08/19 09:30 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		11/14/19 18:16	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		11/14/19 18:16	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/14/19 18:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		11/14/19 18:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		11/14/19 18:16	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/14/19 18:16	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		11/14/19 18:16	79-00-5	
Trichloroethene	**124**	ug/L	1.0	0.26	1		11/14/19 18:16	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		11/14/19 18:16	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		11/14/19 18:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/14/19 18:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/14/19 18:16	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		11/14/19 18:16	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/14/19 18:16	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/14/19 18:16	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/14/19 18:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/14/19 18:16	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/14/19 18:16	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/14/19 18:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-20 **Lab ID: 40199026017** Collected: 11/08/19 10:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.2**	ug/L	5.0	1.2	5		11/14/19 15:22	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		11/14/19 15:22	108-86-1	
Bromochloromethane	**<1.8**	ug/L	25.0	1.8	5		11/14/19 15:22	74-97-5	
Bromodichloromethane	**<1.8**	ug/L	6.1	1.8	5		11/14/19 15:22	75-27-4	
Bromoform	**<19.9**	ug/L	66.2	19.9	5		11/14/19 15:22	75-25-2	
Bromomethane	**<4.9**	ug/L	25.0	4.9	5		11/14/19 15:22	74-83-9	
n-Butylbenzene	**<3.5**	ug/L	11.8	3.5	5		11/14/19 15:22	104-51-8	
sec-Butylbenzene	**<4.2**	ug/L	25.0	4.2	5		11/14/19 15:22	135-98-8	
tert-Butylbenzene	**<1.5**	ug/L	5.1	1.5	5		11/14/19 15:22	98-06-6	
Carbon tetrachloride	**<0.83**	ug/L	5.0	0.83	5		11/14/19 15:22	56-23-5	
Chlorobenzene	**<3.6**	ug/L	11.8	3.6	5		11/14/19 15:22	108-90-7	
Chloroethane	**<6.7**	ug/L	25.0	6.7	5		11/14/19 15:22	75-00-3	
Chloroform	**<6.4**	ug/L	25.0	6.4	5		11/14/19 15:22	67-66-3	
Chloromethane	**<10.9**	ug/L	36.5	10.9	5		11/14/19 15:22	74-87-3	
2-Chlorotoluene	**<4.6**	ug/L	25.0	4.6	5		11/14/19 15:22	95-49-8	
4-Chlorotoluene	**<3.8**	ug/L	12.6	3.8	5		11/14/19 15:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<8.8**	ug/L	29.4	8.8	5		11/14/19 15:22	96-12-8	
Dibromochloromethane	**<13.0**	ug/L	43.4	13.0	5		11/14/19 15:22	124-48-1	
1,2-Dibromoethane (EDB)	**<4.1**	ug/L	13.8	4.1	5		11/14/19 15:22	106-93-4	
Dibromomethane	**<4.7**	ug/L	15.6	4.7	5		11/14/19 15:22	74-95-3	
1,2-Dichlorobenzene	**<3.5**	ug/L	11.8	3.5	5		11/14/19 15:22	95-50-1	
1,3-Dichlorobenzene	**<3.1**	ug/L	10.5	3.1	5		11/14/19 15:22	541-73-1	
1,4-Dichlorobenzene	**<4.7**	ug/L	15.7	4.7	5		11/14/19 15:22	106-46-7	
Dichlorodifluoromethane	**<2.5**	ug/L	25.0	2.5	5		11/14/19 15:22	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		11/14/19 15:22	75-34-3	
1,2-Dichloroethane	**<1.4**	ug/L	5.0	1.4	5		11/14/19 15:22	107-06-2	
1,1-Dichloroethene	**<1.2**	ug/L	5.0	1.2	5		11/14/19 15:22	75-35-4	
cis-1,2-Dichloroethene	**92.1**	ug/L	5.0	1.4	5		11/14/19 15:22	156-59-2	
trans-1,2-Dichloroethene	**<5.5**	ug/L	18.2	5.5	5		11/14/19 15:22	156-60-5	
1,2-Dichloropropane	**<1.4**	ug/L	5.0	1.4	5		11/14/19 15:22	78-87-5	
1,3-Dichloropropane	**<4.1**	ug/L	13.8	4.1	5		11/14/19 15:22	142-28-9	
2,2-Dichloropropane	**<11.3**	ug/L	37.8	11.3	5		11/14/19 15:22	594-20-7	
1,1-Dichloropropene	**<2.7**	ug/L	9.0	2.7	5		11/14/19 15:22	563-58-6	
cis-1,3-Dichloropropene	**<18.1**	ug/L	60.5	18.1	5		11/14/19 15:22	10061-01-5	
trans-1,3-Dichloropropene	**<21.9**	ug/L	72.8	21.9	5		11/14/19 15:22	10061-02-6	
Diisopropyl ether	**<9.4**	ug/L	31.5	9.4	5		11/14/19 15:22	108-20-3	
Ethylbenzene	**<1.1**	ug/L	5.0	1.1	5		11/14/19 15:22	100-41-4	
Hexachloro-1,3-butadiene	**<5.9**	ug/L	25.0	5.9	5		11/14/19 15:22	87-68-3	
Isopropylbenzene (Cumene)	**<2.0**	ug/L	25.0	2.0	5		11/14/19 15:22	98-82-8	
p-Isopropyltoluene	**<4.0**	ug/L	13.3	4.0	5		11/14/19 15:22	99-87-6	
Methylene Chloride	**<2.9**	ug/L	25.0	2.9	5		11/14/19 15:22	75-09-2	
Methyl-tert-butyl ether	**<6.2**	ug/L	20.8	6.2	5		11/14/19 15:22	1634-04-4	
Naphthalene	**<5.9**	ug/L	25.0	5.9	5		11/14/19 15:22	91-20-3	
n-Propylbenzene	**<4.1**	ug/L	25.0	4.1	5		11/14/19 15:22	103-65-1	
Styrene	**<2.3**	ug/L	7.8	2.3	5		11/14/19 15:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.3**	ug/L	5.0	1.3	5		11/14/19 15:22	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-20 **Lab ID: 40199026017** Collected: 11/08/19 10:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.4**	ug/L	5.0	1.4	5		11/14/19 15:22	79-34-5	
Tetrachloroethene	**<1.6**	ug/L	5.4	1.6	5		11/14/19 15:22	127-18-4	
Toluene	**<0.86**	ug/L	25.0	0.86	5		11/14/19 15:22	108-88-3	
1,2,3-Trichlorobenzene	**<3.1**	ug/L	25.0	3.1	5		11/14/19 15:22	87-61-6	
1,2,4-Trichlorobenzene	**<4.8**	ug/L	25.0	4.8	5		11/14/19 15:22	120-82-1	
1,1,1-Trichloroethane	**<1.2**	ug/L	5.0	1.2	5		11/14/19 15:22	71-55-6	
1,1,2-Trichloroethane	**<2.8**	ug/L	25.0	2.8	5		11/14/19 15:22	79-00-5	
Trichloroethene	**<1.3**	ug/L	5.0	1.3	5		11/14/19 15:22	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/L	5.0	1.1	5		11/14/19 15:22	75-69-4	
1,2,3-Trichloropropane	**<3.0**	ug/L	25.0	3.0	5		11/14/19 15:22	96-18-4	
1,2,4-Trimethylbenzene	**<4.2**	ug/L	14.0	4.2	5		11/14/19 15:22	95-63-6	
1,3,5-Trimethylbenzene	**<4.4**	ug/L	14.6	4.4	5		11/14/19 15:22	108-67-8	
Vinyl chloride	**247**	ug/L	5.0	0.87	5		11/14/19 15:22	75-01-4	
Xylene (Total)	**<7.5**	ug/L	15.0	7.5	5		11/14/19 15:22	1330-20-7	
m&p-Xylene	**<2.3**	ug/L	10.0	2.3	5		11/14/19 15:22	179601-23-1	
o-Xylene	**<1.3**	ug/L	5.0	1.3	5		11/14/19 15:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		5		11/14/19 15:22	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		5		11/14/19 15:22	1868-53-7	
Toluene-d8 (S)	94	%	70-130		5		11/14/19 15:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-21 **Lab ID: 40199026018** Collected: 11/08/19 10:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.49**	ug/L	2.0	0.49	2		11/14/19 15:00	71-43-2	
Bromobenzene	**<0.48**	ug/L	2.0	0.48	2		11/14/19 15:00	108-86-1	
Bromochloromethane	**<0.72**	ug/L	10.0	0.72	2		11/14/19 15:00	74-97-5	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		11/14/19 15:00	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		11/14/19 15:00	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		11/14/19 15:00	74-83-9	
n-Butylbenzene	**<1.4**	ug/L	4.7	1.4	2		11/14/19 15:00	104-51-8	
sec-Butylbenzene	**<1.7**	ug/L	10.0	1.7	2		11/14/19 15:00	135-98-8	
tert-Butylbenzene	**<0.61**	ug/L	2.0	0.61	2		11/14/19 15:00	98-06-6	
Carbon tetrachloride	**<0.33**	ug/L	2.0	0.33	2		11/14/19 15:00	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		11/14/19 15:00	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		11/14/19 15:00	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		11/14/19 15:00	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		11/14/19 15:00	74-87-3	
2-Chlorotoluene	**<1.9**	ug/L	10.0	1.9	2		11/14/19 15:00	95-49-8	
4-Chlorotoluene	**<1.5**	ug/L	5.0	1.5	2		11/14/19 15:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		11/14/19 15:00	96-12-8	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		11/14/19 15:00	124-48-1	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		11/14/19 15:00	106-93-4	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		11/14/19 15:00	74-95-3	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		11/14/19 15:00	95-50-1	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		11/14/19 15:00	541-73-1	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		11/14/19 15:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	10.0	1.0	2		11/14/19 15:00	75-71-8	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		11/14/19 15:00	75-34-3	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		11/14/19 15:00	107-06-2	
1,1-Dichloroethene	**0.64J**	ug/L	2.0	0.49	2		11/14/19 15:00	75-35-4	
cis-1,2-Dichloroethene	**296**	ug/L	2.0	0.54	2		11/14/19 15:00	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/L	7.3	2.2	2		11/14/19 15:00	156-60-5	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		11/14/19 15:00	78-87-5	
1,3-Dichloropropane	**<1.7**	ug/L	5.5	1.7	2		11/14/19 15:00	142-28-9	
2,2-Dichloropropane	**<4.5**	ug/L	15.1	4.5	2		11/14/19 15:00	594-20-7	
1,1-Dichloropropene	**<1.1**	ug/L	3.6	1.1	2		11/14/19 15:00	563-58-6	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		11/14/19 15:00	10061-01-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		11/14/19 15:00	10061-02-6	
Diisopropyl ether	**<3.8**	ug/L	12.6	3.8	2		11/14/19 15:00	108-20-3	
Ethylbenzene	**<0.44**	ug/L	2.0	0.44	2		11/14/19 15:00	100-41-4	
Hexachloro-1,3-butadiene	**<2.4**	ug/L	10.0	2.4	2		11/14/19 15:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.79**	ug/L	10.0	0.79	2		11/14/19 15:00	98-82-8	
p-Isopropyltoluene	**<1.6**	ug/L	5.3	1.6	2		11/14/19 15:00	99-87-6	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		11/14/19 15:00	75-09-2	
Methyl-tert-butyl ether	**<2.5**	ug/L	8.3	2.5	2		11/14/19 15:00	1634-04-4	
Naphthalene	**<2.4**	ug/L	10.0	2.4	2		11/14/19 15:00	91-20-3	
n-Propylbenzene	**<1.6**	ug/L	10.0	1.6	2		11/14/19 15:00	103-65-1	
Styrene	**<0.93**	ug/L	3.1	0.93	2		11/14/19 15:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.54**	ug/L	2.0	0.54	2		11/14/19 15:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-21 **Lab ID: 40199026018** Collected: 11/08/19 10:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		11/14/19 15:00	79-34-5	
Tetrachloroethene	**<0.65**	ug/L	2.2	0.65	2		11/14/19 15:00	127-18-4	
Toluene	**<0.34**	ug/L	10.0	0.34	2		11/14/19 15:00	108-88-3	
1,2,3-Trichlorobenzene	**<1.3**	ug/L	10.0	1.3	2		11/14/19 15:00	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		11/14/19 15:00	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		11/14/19 15:00	71-55-6	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		11/14/19 15:00	79-00-5	
Trichloroethene	**23.0**	ug/L	2.0	0.51	2		11/14/19 15:00	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		11/14/19 15:00	75-69-4	
1,2,3-Trichloropropane	**<1.2**	ug/L	10.0	1.2	2		11/14/19 15:00	96-18-4	
1,2,4-Trimethylbenzene	**<1.7**	ug/L	5.6	1.7	2		11/14/19 15:00	95-63-6	
1,3,5-Trimethylbenzene	**<1.7**	ug/L	5.8	1.7	2		11/14/19 15:00	108-67-8	
Vinyl chloride	**645**	ug/L	10.0	1.7	10		11/15/19 03:22	75-01-4	
Xylene (Total)	**<3.0**	ug/L	6.0	3.0	2		11/14/19 15:00	1330-20-7	
m&p-Xylene	**<0.93**	ug/L	4.0	0.93	2		11/14/19 15:00	179601-23-1	
o-Xylene	**<0.52**	ug/L	2.0	0.52	2		11/14/19 15:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		2		11/14/19 15:00	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		2		11/14/19 15:00	1868-53-7	
Toluene-d8 (S)	96	%	70-130		2		11/14/19 15:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-19 **Lab ID: 40199026019** Collected: 11/08/19 11:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**2.5J**	ug/L	10.0	2.5	10		11/14/19 14:38	71-43-2	
Bromobenzene	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:38	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		11/14/19 14:38	74-97-5	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		11/14/19 14:38	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		11/14/19 14:38	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		11/14/19 14:38	74-83-9	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		11/14/19 14:38	104-51-8	
sec-Butylbenzene	**<8.5**	ug/L	50.0	8.5	10		11/14/19 14:38	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		11/14/19 14:38	98-06-6	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		11/14/19 14:38	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		11/14/19 14:38	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		11/14/19 14:38	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		11/14/19 14:38	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		11/14/19 14:38	74-87-3	
2-Chlorotoluene	**<9.3**	ug/L	50.0	9.3	10		11/14/19 14:38	95-49-8	
4-Chlorotoluene	**<7.6**	ug/L	25.2	7.6	10		11/14/19 14:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		11/14/19 14:38	96-12-8	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		11/14/19 14:38	124-48-1	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		11/14/19 14:38	106-93-4	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		11/14/19 14:38	74-95-3	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		11/14/19 14:38	95-50-1	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		11/14/19 14:38	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		11/14/19 14:38	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		11/14/19 14:38	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		11/14/19 14:38	75-34-3	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:38	107-06-2	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:38	75-35-4	
cis-1,2-Dichloroethene	**515**	ug/L	10.0	2.7	10		11/14/19 14:38	156-59-2	
trans-1,2-Dichloroethene	**44.2**	ug/L	36.4	10.9	10		11/14/19 14:38	156-60-5	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:38	78-87-5	
1,3-Dichloropropane	**<8.3**	ug/L	27.5	8.3	10		11/14/19 14:38	142-28-9	
2,2-Dichloropropane	**<22.7**	ug/L	75.5	22.7	10		11/14/19 14:38	594-20-7	
1,1-Dichloropropene	**<5.4**	ug/L	18.0	5.4	10		11/14/19 14:38	563-58-6	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		11/14/19 14:38	10061-01-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		11/14/19 14:38	10061-02-6	
Diisopropyl ether	**<18.9**	ug/L	62.9	18.9	10		11/14/19 14:38	108-20-3	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		11/14/19 14:38	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		11/14/19 14:38	87-68-3	
Isopropylbenzene (Cumene)	**<3.9**	ug/L	50.0	3.9	10		11/14/19 14:38	98-82-8	
p-Isopropyltoluene	**<8.0**	ug/L	26.7	8.0	10		11/14/19 14:38	99-87-6	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		11/14/19 14:38	75-09-2	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		11/14/19 14:38	1634-04-4	
Naphthalene	**<11.8**	ug/L	50.0	11.8	10		11/14/19 14:38	91-20-3	
n-Propylbenzene	**<8.1**	ug/L	50.0	8.1	10		11/14/19 14:38	103-65-1	
Styrene	**<4.7**	ug/L	15.5	4.7	10		11/14/19 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.7**	ug/L	10.0	2.7	10		11/14/19 14:38	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-19 **Lab ID: 40199026019** Collected: 11/08/19 11:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:38	79-34-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		11/14/19 14:38	127-18-4	
Toluene	**<1.7**	ug/L	50.0	1.7	10		11/14/19 14:38	108-88-3	
1,2,3-Trichlorobenzene	**<6.3**	ug/L	50.0	6.3	10		11/14/19 14:38	87-61-6	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		11/14/19 14:38	120-82-1	
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:38	71-55-6	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		11/14/19 14:38	79-00-5	
Trichloroethene	**1010**	ug/L	10.0	2.6	10		11/14/19 14:38	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		11/14/19 14:38	75-69-4	
1,2,3-Trichloropropane	**<5.9**	ug/L	50.0	5.9	10		11/14/19 14:38	96-18-4	
1,2,4-Trimethylbenzene	**<8.4**	ug/L	28.0	8.4	10		11/14/19 14:38	95-63-6	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		11/14/19 14:38	108-67-8	
Vinyl chloride	**32.2**	ug/L	10.0	1.7	10		11/14/19 14:38	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		11/14/19 14:38	1330-20-7	
m&p-Xylene	**<4.7**	ug/L	20.0	4.7	10		11/14/19 14:38	179601-23-1	
o-Xylene	**<2.6**	ug/L	10.0	2.6	10		11/14/19 14:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		10		11/14/19 14:38	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		10		11/14/19 14:38	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		11/14/19 14:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-19D **Lab ID: 40199026020** Collected: 11/08/19 11:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<2.5**	ug/L	10.0	2.5	10		11/14/19 14:16	71-43-2	
Bromobenzene	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:16	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		11/14/19 14:16	74-97-5	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		11/14/19 14:16	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		11/14/19 14:16	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		11/14/19 14:16	74-83-9	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		11/14/19 14:16	104-51-8	
sec-Butylbenzene	**<8.5**	ug/L	50.0	8.5	10		11/14/19 14:16	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		11/14/19 14:16	98-06-6	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		11/14/19 14:16	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		11/14/19 14:16	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		11/14/19 14:16	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		11/14/19 14:16	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		11/14/19 14:16	74-87-3	
2-Chlorotoluene	**<9.3**	ug/L	50.0	9.3	10		11/14/19 14:16	95-49-8	
4-Chlorotoluene	**<7.6**	ug/L	25.2	7.6	10		11/14/19 14:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		11/14/19 14:16	96-12-8	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		11/14/19 14:16	124-48-1	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		11/14/19 14:16	106-93-4	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		11/14/19 14:16	74-95-3	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		11/14/19 14:16	95-50-1	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		11/14/19 14:16	541-73-1	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		11/14/19 14:16	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		11/14/19 14:16	75-71-8	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		11/14/19 14:16	75-34-3	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:16	107-06-2	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:16	75-35-4	
cis-1,2-Dichloroethene	**478**	ug/L	10.0	2.7	10		11/14/19 14:16	156-59-2	
trans-1,2-Dichloroethene	**56.2**	ug/L	36.4	10.9	10		11/14/19 14:16	156-60-5	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:16	78-87-5	
1,3-Dichloropropane	**<8.3**	ug/L	27.5	8.3	10		11/14/19 14:16	142-28-9	
2,2-Dichloropropane	**<22.7**	ug/L	75.5	22.7	10		11/14/19 14:16	594-20-7	
1,1-Dichloropropene	**<5.4**	ug/L	18.0	5.4	10		11/14/19 14:16	563-58-6	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		11/14/19 14:16	10061-01-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		11/14/19 14:16	10061-02-6	
Diisopropyl ether	**<18.9**	ug/L	62.9	18.9	10		11/14/19 14:16	108-20-3	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		11/14/19 14:16	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		11/14/19 14:16	87-68-3	
Isopropylbenzene (Cumene)	**<3.9**	ug/L	50.0	3.9	10		11/14/19 14:16	98-82-8	
p-Isopropyltoluene	**<8.0**	ug/L	26.7	8.0	10		11/14/19 14:16	99-87-6	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		11/14/19 14:16	75-09-2	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		11/14/19 14:16	1634-04-4	
Naphthalene	**<11.8**	ug/L	50.0	11.8	10		11/14/19 14:16	91-20-3	
n-Propylbenzene	**<8.1**	ug/L	50.0	8.1	10		11/14/19 14:16	103-65-1	
Styrene	**<4.7**	ug/L	15.5	4.7	10		11/14/19 14:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.7**	ug/L	10.0	2.7	10		11/14/19 14:16	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-19D **Lab ID: 40199026020** Collected: 11/08/19 11:10 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		11/14/19 14:16	79-34-5	
Tetrachloroethene	**<3.3**	ug/L	10.9	3.3	10		11/14/19 14:16	127-18-4	
Toluene	**<1.7**	ug/L	50.0	1.7	10		11/14/19 14:16	108-88-3	
1,2,3-Trichlorobenzene	**<6.3**	ug/L	50.0	6.3	10		11/14/19 14:16	87-61-6	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		11/14/19 14:16	120-82-1	
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		11/14/19 14:16	71-55-6	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		11/14/19 14:16	79-00-5	
Trichloroethene	**958**	ug/L	10.0	2.6	10		11/14/19 14:16	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		11/14/19 14:16	75-69-4	
1,2,3-Trichloropropane	**<5.9**	ug/L	50.0	5.9	10		11/14/19 14:16	96-18-4	
1,2,4-Trimethylbenzene	**<8.4**	ug/L	28.0	8.4	10		11/14/19 14:16	95-63-6	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		11/14/19 14:16	108-67-8	
Vinyl chloride	**26.8**	ug/L	10.0	1.7	10		11/14/19 14:16	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		11/14/19 14:16	1330-20-7	
m&p-Xylene	**<4.7**	ug/L	20.0	4.7	10		11/14/19 14:16	179601-23-1	
o-Xylene	**<2.6**	ug/L	10.0	2.6	10		11/14/19 14:16	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		10		11/14/19 14:16	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		10		11/14/19 14:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		10		11/14/19 14:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-23 **Lab ID: 40199026021** Collected: 11/08/19 11:15 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<24.6**	ug/L	100	24.6	100		11/15/19 02:51	71-43-2	
Bromobenzene	**<24.1**	ug/L	100	24.1	100		11/15/19 02:51	108-86-1	
Bromochloromethane	**<36.2**	ug/L	500	36.2	100		11/15/19 02:51	74-97-5	
Bromodichloromethane	**<36.4**	ug/L	121	36.4	100		11/15/19 02:51	75-27-4	
Bromoform	**<397**	ug/L	1320	397	100		11/15/19 02:51	75-25-2	
Bromomethane	**<97.1**	ug/L	500	97.1	100		11/15/19 02:51	74-83-9	
n-Butylbenzene	**<70.8**	ug/L	236	70.8	100		11/15/19 02:51	104-51-8	
sec-Butylbenzene	**<84.9**	ug/L	500	84.9	100		11/15/19 02:51	135-98-8	
tert-Butylbenzene	**<30.4**	ug/L	101	30.4	100		11/15/19 02:51	98-06-6	
Carbon tetrachloride	**<16.6**	ug/L	100	16.6	100		11/15/19 02:51	56-23-5	
Chlorobenzene	**<71.1**	ug/L	237	71.1	100		11/15/19 02:51	108-90-7	
Chloroethane	**<134**	ug/L	500	134	100		11/15/19 02:51	75-00-3	
Chloroform	**<127**	ug/L	500	127	100		11/15/19 02:51	67-66-3	
Chloromethane	**<219**	ug/L	730	219	100		11/15/19 02:51	74-87-3	
2-Chlorotoluene	**<92.6**	ug/L	500	92.6	100		11/15/19 02:51	95-49-8	
4-Chlorotoluene	**<75.6**	ug/L	252	75.6	100		11/15/19 02:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<176**	ug/L	588	176	100		11/15/19 02:51	96-12-8	
Dibromochloromethane	**<260**	ug/L	867	260	100		11/15/19 02:51	124-48-1	
1,2-Dibromoethane (EDB)	**<82.9**	ug/L	276	82.9	100		11/15/19 02:51	106-93-4	
Dibromomethane	**<93.7**	ug/L	312	93.7	100		11/15/19 02:51	74-95-3	
1,2-Dichlorobenzene	**<70.5**	ug/L	235	70.5	100		11/15/19 02:51	95-50-1	
1,3-Dichlorobenzene	**<62.8**	ug/L	209	62.8	100		11/15/19 02:51	541-73-1	
1,4-Dichlorobenzene	**<94.4**	ug/L	315	94.4	100		11/15/19 02:51	106-46-7	
Dichlorodifluoromethane	**<50.0**	ug/L	500	50.0	100		11/15/19 02:51	75-71-8	
1,1-Dichloroethane	**<27.3**	ug/L	100	27.3	100		11/15/19 02:51	75-34-3	
1,2-Dichloroethane	**<28.0**	ug/L	100	28.0	100		11/15/19 02:51	107-06-2	
1,1-Dichloroethene	**<24.5**	ug/L	100	24.5	100		11/15/19 02:51	75-35-4	
cis-1,2-Dichloroethene	**7650**	ug/L	100	27.1	100		11/15/19 02:51	156-59-2	
trans-1,2-Dichloroethene	**<109**	ug/L	364	109	100		11/15/19 02:51	156-60-5	
1,2-Dichloropropane	**<28.3**	ug/L	100	28.3	100		11/15/19 02:51	78-87-5	
1,3-Dichloropropane	**<82.6**	ug/L	275	82.6	100		11/15/19 02:51	142-28-9	
2,2-Dichloropropane	**<227**	ug/L	755	227	100		11/15/19 02:51	594-20-7	
1,1-Dichloropropene	**<54.0**	ug/L	180	54.0	100		11/15/19 02:51	563-58-6	
cis-1,3-Dichloropropene	**<363**	ug/L	1210	363	100		11/15/19 02:51	10061-01-5	
trans-1,3-Dichloropropene	**<437**	ug/L	1460	437	100		11/15/19 02:51	10061-02-6	
Diisopropyl ether	**<189**	ug/L	629	189	100		11/15/19 02:51	108-20-3	
Ethylbenzene	**<21.8**	ug/L	100	21.8	100		11/15/19 02:51	100-41-4	
Hexachloro-1,3-butadiene	**<118**	ug/L	500	118	100		11/15/19 02:51	87-68-3	
Isopropylbenzene (Cumene)	**<39.3**	ug/L	500	39.3	100		11/15/19 02:51	98-82-8	
p-Isopropyltoluene	**<80.0**	ug/L	267	80.0	100		11/15/19 02:51	99-87-6	
Methylene Chloride	**<58.1**	ug/L	500	58.1	100		11/15/19 02:51	75-09-2	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		11/15/19 02:51	1634-04-4	
Naphthalene	**<118**	ug/L	500	118	100		11/15/19 02:51	91-20-3	
n-Propylbenzene	**<81.1**	ug/L	500	81.1	100		11/15/19 02:51	103-65-1	
Styrene	**<46.5**	ug/L	155	46.5	100		11/15/19 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<26.9**	ug/L	100	26.9	100		11/15/19 02:51	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-23 **Lab ID: 40199026021** Collected: 11/08/19 11:15 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<27.5**	ug/L	100	27.5	100		11/15/19 02:51	79-34-5	
Tetrachloroethene	**<32.6**	ug/L	109	32.6	100		11/15/19 02:51	127-18-4	
Toluene	**<17.2**	ug/L	500	17.2	100		11/15/19 02:51	108-88-3	
1,2,3-Trichlorobenzene	**<62.6**	ug/L	500	62.6	100		11/15/19 02:51	87-61-6	
1,2,4-Trichlorobenzene	**<95.1**	ug/L	500	95.1	100		11/15/19 02:51	120-82-1	
1,1,1-Trichloroethane	**<24.5**	ug/L	100	24.5	100		11/15/19 02:51	71-55-6	
1,1,2-Trichloroethane	**<55.2**	ug/L	500	55.2	100		11/15/19 02:51	79-00-5	
Trichloroethene	**27.9J**	ug/L	100	25.5	100		11/15/19 02:51	79-01-6	
Trichlorofluoromethane	**<21.5**	ug/L	100	21.5	100		11/15/19 02:51	75-69-4	
1,2,3-Trichloropropane	**<59.1**	ug/L	500	59.1	100		11/15/19 02:51	96-18-4	
1,2,4-Trimethylbenzene	**<84.1**	ug/L	280	84.1	100		11/15/19 02:51	95-63-6	
1,3,5-Trimethylbenzene	**<87.3**	ug/L	291	87.3	100		11/15/19 02:51	108-67-8	
Vinyl chloride	**1070**	ug/L	100	17.5	100		11/15/19 02:51	75-01-4	
Xylene (Total)	**<150**	ug/L	300	150	100		11/15/19 02:51	1330-20-7	
m&p-Xylene	**<46.5**	ug/L	200	46.5	100		11/15/19 02:51	179601-23-1	
o-Xylene	**<26.2**	ug/L	100	26.2	100		11/15/19 02:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		100		11/15/19 02:51	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		100		11/15/19 02:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		100		11/15/19 02:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-27 **Lab ID: 40199026022** Collected: 11/08/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<30.8**	ug/L	125	30.8	125		11/15/19 03:13	71-43-2	
Bromobenzene	**<30.1**	ug/L	125	30.1	125		11/15/19 03:13	108-86-1	
Bromochloromethane	**<45.3**	ug/L	625	45.3	125		11/15/19 03:13	74-97-5	
Bromodichloromethane	**<45.5**	ug/L	152	45.5	125		11/15/19 03:13	75-27-4	
Bromoform	**<496**	ug/L	1650	496	125		11/15/19 03:13	75-25-2	
Bromomethane	**<121**	ug/L	625	121	125		11/15/19 03:13	74-83-9	
n-Butylbenzene	**<88.5**	ug/L	295	88.5	125		11/15/19 03:13	104-51-8	
sec-Butylbenzene	**<106**	ug/L	625	106	125		11/15/19 03:13	135-98-8	
tert-Butylbenzene	**<38.0**	ug/L	127	38.0	125		11/15/19 03:13	98-06-6	
Carbon tetrachloride	**<20.7**	ug/L	125	20.7	125		11/15/19 03:13	56-23-5	
Chlorobenzene	**<88.9**	ug/L	296	88.9	125		11/15/19 03:13	108-90-7	
Chloroethane	**<168**	ug/L	625	168	125		11/15/19 03:13	75-00-3	
Chloroform	**<159**	ug/L	625	159	125		11/15/19 03:13	67-66-3	
Chloromethane	**<274**	ug/L	912	274	125		11/15/19 03:13	74-87-3	
2-Chlorotoluene	**<116**	ug/L	625	116	125		11/15/19 03:13	95-49-8	
4-Chlorotoluene	**<94.5**	ug/L	315	94.5	125		11/15/19 03:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<220**	ug/L	735	220	125		11/15/19 03:13	96-12-8	
Dibromochloromethane	**<325**	ug/L	1080	325	125		11/15/19 03:13	124-48-1	
1,2-Dibromoethane (EDB)	**<104**	ug/L	346	104	125		11/15/19 03:13	106-93-4	
Dibromomethane	**<117**	ug/L	390	117	125		11/15/19 03:13	74-95-3	
1,2-Dichlorobenzene	**<88.2**	ug/L	294	88.2	125		11/15/19 03:13	95-50-1	
1,3-Dichlorobenzene	**<78.5**	ug/L	262	78.5	125		11/15/19 03:13	541-73-1	
1,4-Dichlorobenzene	**<118**	ug/L	393	118	125		11/15/19 03:13	106-46-7	
Dichlorodifluoromethane	**<62.4**	ug/L	625	62.4	125		11/15/19 03:13	75-71-8	
1,1-Dichloroethane	**<34.1**	ug/L	125	34.1	125		11/15/19 03:13	75-34-3	
1,2-Dichloroethane	**<35.0**	ug/L	125	35.0	125		11/15/19 03:13	107-06-2	
1,1-Dichloroethene	**34.4J**	ug/L	125	30.6	125		11/15/19 03:13	75-35-4	
cis-1,2-Dichloroethene	**9430**	ug/L	125	33.9	125		11/15/19 03:13	156-59-2	
trans-1,2-Dichloroethene	**<136**	ug/L	454	136	125		11/15/19 03:13	156-60-5	
1,2-Dichloropropane	**<35.3**	ug/L	125	35.3	125		11/15/19 03:13	78-87-5	
1,3-Dichloropropane	**<103**	ug/L	344	103	125		11/15/19 03:13	142-28-9	
2,2-Dichloropropane	**<283**	ug/L	944	283	125		11/15/19 03:13	594-20-7	
1,1-Dichloropropene	**<67.6**	ug/L	225	67.6	125		11/15/19 03:13	563-58-6	
cis-1,3-Dichloropropene	**<454**	ug/L	1510	454	125		11/15/19 03:13	10061-01-5	
trans-1,3-Dichloropropene	**<546**	ug/L	1820	546	125		11/15/19 03:13	10061-02-6	
Diisopropyl ether	**<236**	ug/L	787	236	125		11/15/19 03:13	108-20-3	
Ethylbenzene	**<27.3**	ug/L	125	27.3	125		11/15/19 03:13	100-41-4	
Hexachloro-1,3-butadiene	**<148**	ug/L	625	148	125		11/15/19 03:13	87-68-3	
Isopropylbenzene (Cumene)	**<49.1**	ug/L	625	49.1	125		11/15/19 03:13	98-82-8	
p-Isopropyltoluene	**<100**	ug/L	333	100	125		11/15/19 03:13	99-87-6	
Methylene Chloride	**<72.6**	ug/L	625	72.6	125		11/15/19 03:13	75-09-2	
Methyl-tert-butyl ether	**<156**	ug/L	519	156	125		11/15/19 03:13	1634-04-4	
Naphthalene	**<147**	ug/L	625	147	125		11/15/19 03:13	91-20-3	
n-Propylbenzene	**<101**	ug/L	625	101	125		11/15/19 03:13	103-65-1	
Styrene	**<58.2**	ug/L	194	58.2	125		11/15/19 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<33.6**	ug/L	125	33.6	125		11/15/19 03:13	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-27 **Lab ID: 40199026022** Collected: 11/08/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<34.4**	ug/L	125	34.4	125		11/15/19 03:13	79-34-5	
Tetrachloroethene	**<40.8**	ug/L	136	40.8	125		11/15/19 03:13	127-18-4	
Toluene	**<21.5**	ug/L	625	21.5	125		11/15/19 03:13	108-88-3	
1,2,3-Trichlorobenzene	**<78.2**	ug/L	625	78.2	125		11/15/19 03:13	87-61-6	
1,2,4-Trichlorobenzene	**<119**	ug/L	625	119	125		11/15/19 03:13	120-82-1	
1,1,1-Trichloroethane	**<30.6**	ug/L	125	30.6	125		11/15/19 03:13	71-55-6	
1,1,2-Trichloroethane	**<69.0**	ug/L	625	69.0	125		11/15/19 03:13	79-00-5	
Trichloroethene	**143**	ug/L	125	31.9	125		11/15/19 03:13	79-01-6	
Trichlorofluoromethane	**<26.9**	ug/L	125	26.9	125		11/15/19 03:13	75-69-4	
1,2,3-Trichloropropane	**<73.8**	ug/L	625	73.8	125		11/15/19 03:13	96-18-4	
1,2,4-Trimethylbenzene	**<105**	ug/L	350	105	125		11/15/19 03:13	95-63-6	
1,3,5-Trimethylbenzene	**<109**	ug/L	364	109	125		11/15/19 03:13	108-67-8	
Vinyl chloride	**1140**	ug/L	125	21.8	125		11/15/19 03:13	75-01-4	
Xylene (Total)	**<188**	ug/L	375	188	125		11/15/19 03:13	1330-20-7	
m&p-Xylene	**<58.2**	ug/L	250	58.2	125		11/15/19 03:13	179601-23-1	
o-Xylene	**<32.7**	ug/L	125	32.7	125		11/15/19 03:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		125		11/15/19 03:13	460-00-4	
Dibromofluoromethane (S)	92	%	70-130		125		11/15/19 03:13	1868-53-7	
Toluene-d8 (S)	95	%	70-130		125		11/15/19 03:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-27D **Lab ID: 40199026023** Collected: 11/08/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<24.6**	ug/L	100	24.6	100		11/15/19 07:09	71-43-2	
Bromobenzene	**<24.1**	ug/L	100	24.1	100		11/15/19 07:09	108-86-1	
Bromochloromethane	**<36.2**	ug/L	500	36.2	100		11/15/19 07:09	74-97-5	
Bromodichloromethane	**<36.4**	ug/L	121	36.4	100		11/15/19 07:09	75-27-4	
Bromoform	**<397**	ug/L	1320	397	100		11/15/19 07:09	75-25-2	
Bromomethane	**<97.1**	ug/L	500	97.1	100		11/15/19 07:09	74-83-9	
n-Butylbenzene	**<70.8**	ug/L	236	70.8	100		11/15/19 07:09	104-51-8	
sec-Butylbenzene	**<84.9**	ug/L	500	84.9	100		11/15/19 07:09	135-98-8	
tert-Butylbenzene	**<30.4**	ug/L	101	30.4	100		11/15/19 07:09	98-06-6	
Carbon tetrachloride	**<16.6**	ug/L	100	16.6	100		11/15/19 07:09	56-23-5	
Chlorobenzene	**<71.1**	ug/L	237	71.1	100		11/15/19 07:09	108-90-7	
Chloroethane	**<134**	ug/L	500	134	100		11/15/19 07:09	75-00-3	
Chloroform	**<127**	ug/L	500	127	100		11/15/19 07:09	67-66-3	
Chloromethane	**<219**	ug/L	730	219	100		11/15/19 07:09	74-87-3	
2-Chlorotoluene	**<92.6**	ug/L	500	92.6	100		11/15/19 07:09	95-49-8	
4-Chlorotoluene	**<75.6**	ug/L	252	75.6	100		11/15/19 07:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<176**	ug/L	588	176	100		11/15/19 07:09	96-12-8	
Dibromochloromethane	**<260**	ug/L	867	260	100		11/15/19 07:09	124-48-1	
1,2-Dibromoethane (EDB)	**<82.9**	ug/L	276	82.9	100		11/15/19 07:09	106-93-4	
Dibromomethane	**<93.7**	ug/L	312	93.7	100		11/15/19 07:09	74-95-3	
1,2-Dichlorobenzene	**<70.5**	ug/L	235	70.5	100		11/15/19 07:09	95-50-1	
1,3-Dichlorobenzene	**<62.8**	ug/L	209	62.8	100		11/15/19 07:09	541-73-1	
1,4-Dichlorobenzene	**<94.4**	ug/L	315	94.4	100		11/15/19 07:09	106-46-7	
Dichlorodifluoromethane	**<50.0**	ug/L	500	50.0	100		11/15/19 07:09	75-71-8	
1,1-Dichloroethane	**<27.3**	ug/L	100	27.3	100		11/15/19 07:09	75-34-3	
1,2-Dichloroethane	**<28.0**	ug/L	100	28.0	100		11/15/19 07:09	107-06-2	
1,1-Dichloroethene	**36.8J**	ug/L	100	24.5	100		11/15/19 07:09	75-35-4	
cis-1,2-Dichloroethene	**9430**	ug/L	100	27.1	100		11/15/19 07:09	156-59-2	
trans-1,2-Dichloroethene	**<109**	ug/L	364	109	100		11/15/19 07:09	156-60-5	
1,2-Dichloropropane	**<28.3**	ug/L	100	28.3	100		11/15/19 07:09	78-87-5	
1,3-Dichloropropane	**<82.6**	ug/L	275	82.6	100		11/15/19 07:09	142-28-9	
2,2-Dichloropropane	**<227**	ug/L	755	227	100		11/15/19 07:09	594-20-7	
1,1-Dichloropropene	**<54.0**	ug/L	180	54.0	100		11/15/19 07:09	563-58-6	
cis-1,3-Dichloropropene	**<363**	ug/L	1210	363	100		11/15/19 07:09	10061-01-5	
trans-1,3-Dichloropropene	**<437**	ug/L	1460	437	100		11/15/19 07:09	10061-02-6	
Diisopropyl ether	**<189**	ug/L	629	189	100		11/15/19 07:09	108-20-3	
Ethylbenzene	**<21.8**	ug/L	100	21.8	100		11/15/19 07:09	100-41-4	
Hexachloro-1,3-butadiene	**<118**	ug/L	500	118	100		11/15/19 07:09	87-68-3	
Isopropylbenzene (Cumene)	**<39.3**	ug/L	500	39.3	100		11/15/19 07:09	98-82-8	
p-Isopropyltoluene	**<80.0**	ug/L	267	80.0	100		11/15/19 07:09	99-87-6	
Methylene Chloride	**<58.1**	ug/L	500	58.1	100		11/15/19 07:09	75-09-2	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		11/15/19 07:09	1634-04-4	
Naphthalene	**<118**	ug/L	500	118	100		11/15/19 07:09	91-20-3	
n-Propylbenzene	**<81.1**	ug/L	500	81.1	100		11/15/19 07:09	103-65-1	
Styrene	**<46.5**	ug/L	155	46.5	100		11/15/19 07:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<26.9**	ug/L	100	26.9	100		11/15/19 07:09	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-27D **Lab ID: 40199026023** Collected: 11/08/19 12:00 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<27.5**	ug/L	100	27.5	100		11/15/19 07:09	79-34-5	
Tetrachloroethene	**<32.6**	ug/L	109	32.6	100		11/15/19 07:09	127-18-4	
Toluene	**<17.2**	ug/L	500	17.2	100		11/15/19 07:09	108-88-3	
1,2,3-Trichlorobenzene	**<62.6**	ug/L	500	62.6	100		11/15/19 07:09	87-61-6	
1,2,4-Trichlorobenzene	**<95.1**	ug/L	500	95.1	100		11/15/19 07:09	120-82-1	
1,1,1-Trichloroethane	**<24.5**	ug/L	100	24.5	100		11/15/19 07:09	71-55-6	
1,1,2-Trichloroethane	**<55.2**	ug/L	500	55.2	100		11/15/19 07:09	79-00-5	
Trichloroethene	**144**	ug/L	100	25.5	100		11/15/19 07:09	79-01-6	
Trichlorofluoromethane	**<21.5**	ug/L	100	21.5	100		11/15/19 07:09	75-69-4	
1,2,3-Trichloropropane	**<59.1**	ug/L	500	59.1	100		11/15/19 07:09	96-18-4	
1,2,4-Trimethylbenzene	**<84.1**	ug/L	280	84.1	100		11/15/19 07:09	95-63-6	
1,3,5-Trimethylbenzene	**<87.3**	ug/L	291	87.3	100		11/15/19 07:09	108-67-8	
Vinyl chloride	**1210**	ug/L	100	17.5	100		11/15/19 07:09	75-01-4	
Xylene (Total)	**<150**	ug/L	300	150	100		11/15/19 07:09	1330-20-7	
m&p-Xylene	**<46.5**	ug/L	200	46.5	100		11/15/19 07:09	179601-23-1	
o-Xylene	**<26.2**	ug/L	100	26.2	100		11/15/19 07:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		100		11/15/19 07:09	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		100		11/15/19 07:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		100		11/15/19 07:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-9R **Lab ID: 40199026024** Collected: 11/08/19 12:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.99**	ug/L	4.0	0.99	4		11/15/19 06:42	71-43-2	
Bromobenzene	**<0.96**	ug/L	4.0	0.96	4		11/15/19 06:42	108-86-1	
Bromochloromethane	**<1.4**	ug/L	20.0	1.4	4		11/15/19 06:42	74-97-5	
Bromodichloromethane	**<1.5**	ug/L	4.8	1.5	4		11/15/19 06:42	75-27-4	
Bromoform	**<15.9**	ug/L	53.0	15.9	4		11/15/19 06:42	75-25-2	
Bromomethane	**<3.9**	ug/L	20.0	3.9	4		11/15/19 06:42	74-83-9	
n-Butylbenzene	**<2.8**	ug/L	9.4	2.8	4		11/15/19 06:42	104-51-8	
sec-Butylbenzene	**<3.4**	ug/L	20.0	3.4	4		11/15/19 06:42	135-98-8	
tert-Butylbenzene	**<1.2**	ug/L	4.1	1.2	4		11/15/19 06:42	98-06-6	
Carbon tetrachloride	**<0.66**	ug/L	4.0	0.66	4		11/15/19 06:42	56-23-5	
Chlorobenzene	**<2.8**	ug/L	9.5	2.8	4		11/15/19 06:42	108-90-7	
Chloroethane	**<5.4**	ug/L	20.0	5.4	4		11/15/19 06:42	75-00-3	
Chloroform	**<5.1**	ug/L	20.0	5.1	4		11/15/19 06:42	67-66-3	
Chloromethane	**<8.8**	ug/L	29.2	8.8	4		11/15/19 06:42	74-87-3	
2-Chlorotoluene	**<3.7**	ug/L	20.0	3.7	4		11/15/19 06:42	95-49-8	
4-Chlorotoluene	**<3.0**	ug/L	10.1	3.0	4		11/15/19 06:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<7.1**	ug/L	23.5	7.1	4		11/15/19 06:42	96-12-8	
Dibromochloromethane	**<10.4**	ug/L	34.7	10.4	4		11/15/19 06:42	124-48-1	
1,2-Dibromoethane (EDB)	**<3.3**	ug/L	11.1	3.3	4		11/15/19 06:42	106-93-4	
Dibromomethane	**<3.7**	ug/L	12.5	3.7	4		11/15/19 06:42	74-95-3	
1,2-Dichlorobenzene	**<2.8**	ug/L	9.4	2.8	4		11/15/19 06:42	95-50-1	
1,3-Dichlorobenzene	**<2.5**	ug/L	8.4	2.5	4		11/15/19 06:42	541-73-1	
1,4-Dichlorobenzene	**<3.8**	ug/L	12.6	3.8	4		11/15/19 06:42	106-46-7	
Dichlorodifluoromethane	**<2.0**	ug/L	20.0	2.0	4		11/15/19 06:42	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		11/15/19 06:42	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		11/15/19 06:42	107-06-2	
1,1-Dichloroethene	**1.2J**	ug/L	4.0	0.98	4		11/15/19 06:42	75-35-4	
cis-1,2-Dichloroethene	**269**	ug/L	4.0	1.1	4		11/15/19 06:42	156-59-2	
trans-1,2-Dichloroethene	**<4.4**	ug/L	14.5	4.4	4		11/15/19 06:42	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		11/15/19 06:42	78-87-5	
1,3-Dichloropropane	**<3.3**	ug/L	11.0	3.3	4		11/15/19 06:42	142-28-9	
2,2-Dichloropropane	**<9.1**	ug/L	30.2	9.1	4		11/15/19 06:42	594-20-7	
1,1-Dichloropropene	**<2.2**	ug/L	7.2	2.2	4		11/15/19 06:42	563-58-6	
cis-1,3-Dichloropropene	**<14.5**	ug/L	48.4	14.5	4		11/15/19 06:42	10061-01-5	
trans-1,3-Dichloropropene	**<17.5**	ug/L	58.3	17.5	4		11/15/19 06:42	10061-02-6	
Diisopropyl ether	**<7.6**	ug/L	25.2	7.6	4		11/15/19 06:42	108-20-3	
Ethylbenzene	**<0.87**	ug/L	4.0	0.87	4		11/15/19 06:42	100-41-4	
Hexachloro-1,3-butadiene	**<4.7**	ug/L	20.0	4.7	4		11/15/19 06:42	87-68-3	
Isopropylbenzene (Cumene)	**<1.6**	ug/L	20.0	1.6	4		11/15/19 06:42	98-82-8	
p-Isopropyltoluene	**<3.2**	ug/L	10.7	3.2	4		11/15/19 06:42	99-87-6	
Methylene Chloride	**<2.3**	ug/L	20.0	2.3	4		11/15/19 06:42	75-09-2	
Methyl-tert-butyl ether	**<5.0**	ug/L	16.6	5.0	4		11/15/19 06:42	1634-04-4	
Naphthalene	**<4.7**	ug/L	20.0	4.7	4		11/15/19 06:42	91-20-3	
n-Propylbenzene	**<3.2**	ug/L	20.0	3.2	4		11/15/19 06:42	103-65-1	
Styrene	**<1.9**	ug/L	6.2	1.9	4		11/15/19 06:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		11/15/19 06:42	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-9R **Lab ID: 40199026024** Collected: 11/08/19 12:05 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		11/15/19 06:42	79-34-5	
Tetrachloroethene	**<1.3**	ug/L	4.4	1.3	4		11/15/19 06:42	127-18-4	
Toluene	**<0.69**	ug/L	20.0	0.69	4		11/15/19 06:42	108-88-3	
1,2,3-Trichlorobenzene	**<2.5**	ug/L	20.0	2.5	4		11/15/19 06:42	87-61-6	
1,2,4-Trichlorobenzene	**<3.8**	ug/L	20.0	3.8	4		11/15/19 06:42	120-82-1	
1,1,1-Trichloroethane	**<0.98**	ug/L	4.0	0.98	4		11/15/19 06:42	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/L	20.0	2.2	4		11/15/19 06:42	79-00-5	
Trichloroethene	**85.2**	ug/L	4.0	1.0	4		11/15/19 06:42	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/L	4.0	0.86	4		11/15/19 06:42	75-69-4	
1,2,3-Trichloropropane	**<2.4**	ug/L	20.0	2.4	4		11/15/19 06:42	96-18-4	
1,2,4-Trimethylbenzene	**<3.4**	ug/L	11.2	3.4	4		11/15/19 06:42	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/L	11.6	3.5	4		11/15/19 06:42	108-67-8	
Vinyl chloride	**12.6**	ug/L	4.0	0.70	4		11/15/19 06:42	75-01-4	
Xylene (Total)	**<6.0**	ug/L	12.0	6.0	4		11/15/19 06:42	1330-20-7	
m&p-Xylene	**<1.9**	ug/L	8.0	1.9	4		11/15/19 06:42	179601-23-1	
o-Xylene	**<1.0**	ug/L	4.0	1.0	4		11/15/19 06:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		4		11/15/19 06:42	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		4		11/15/19 06:42	1868-53-7	
Toluene-d8 (S)	98	%	70-130		4		11/15/19 06:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-22 **Lab ID: 40199026025** Collected: 11/08/19 12:45 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<61.6**	ug/L	250	61.6	250		11/15/19 01:44	71-43-2	
Bromobenzene	**<60.3**	ug/L	250	60.3	250		11/15/19 01:44	108-86-1	
Bromochloromethane	**<90.5**	ug/L	1250	90.5	250		11/15/19 01:44	74-97-5	
Bromodichloromethane	**<90.9**	ug/L	303	90.9	250		11/15/19 01:44	75-27-4	
Bromoform	**<993**	ug/L	3310	993	250		11/15/19 01:44	75-25-2	
Bromomethane	**<243**	ug/L	1250	243	250		11/15/19 01:44	74-83-9	
n-Butylbenzene	**<177**	ug/L	590	177	250		11/15/19 01:44	104-51-8	
sec-Butylbenzene	**<212**	ug/L	1250	212	250		11/15/19 01:44	135-98-8	
tert-Butylbenzene	**<76.0**	ug/L	253	76.0	250		11/15/19 01:44	98-06-6	
Carbon tetrachloride	**<41.5**	ug/L	250	41.5	250		11/15/19 01:44	56-23-5	
Chlorobenzene	**<178**	ug/L	592	178	250		11/15/19 01:44	108-90-7	
Chloroethane	**<336**	ug/L	1250	336	250		11/15/19 01:44	75-00-3	
Chloroform	**<318**	ug/L	1250	318	250		11/15/19 01:44	67-66-3	
Chloromethane	**<547**	ug/L	1820	547	250		11/15/19 01:44	74-87-3	
2-Chlorotoluene	**<232**	ug/L	1250	232	250		11/15/19 01:44	95-49-8	
4-Chlorotoluene	**<189**	ug/L	630	189	250		11/15/19 01:44	106-43-4	
1,2-Dibromo-3-chloropropane	**<441**	ug/L	1470	441	250		11/15/19 01:44	96-12-8	
Dibromochloromethane	**<650**	ug/L	2170	650	250		11/15/19 01:44	124-48-1	
1,2-Dibromoethane (EDB)	**<207**	ug/L	691	207	250		11/15/19 01:44	106-93-4	
Dibromomethane	**<234**	ug/L	781	234	250		11/15/19 01:44	74-95-3	
1,2-Dichlorobenzene	**<176**	ug/L	588	176	250		11/15/19 01:44	95-50-1	
1,3-Dichlorobenzene	**<157**	ug/L	523	157	250		11/15/19 01:44	541-73-1	
1,4-Dichlorobenzene	**<236**	ug/L	786	236	250		11/15/19 01:44	106-46-7	
Dichlorodifluoromethane	**<125**	ug/L	1250	125	250		11/15/19 01:44	75-71-8	
1,1-Dichloroethane	**<68.1**	ug/L	250	68.1	250		11/15/19 01:44	75-34-3	
1,2-Dichloroethane	**<70.0**	ug/L	250	70.0	250		11/15/19 01:44	107-06-2	
1,1-Dichloroethene	**<61.2**	ug/L	250	61.2	250		11/15/19 01:44	75-35-4	
cis-1,2-Dichloroethene	**15000**	ug/L	250	67.8	250		11/15/19 01:44	156-59-2	
trans-1,2-Dichloroethene	**<273**	ug/L	909	273	250		11/15/19 01:44	156-60-5	
1,2-Dichloropropane	**<70.7**	ug/L	250	70.7	250		11/15/19 01:44	78-87-5	
1,3-Dichloropropane	**<206**	ug/L	688	206	250		11/15/19 01:44	142-28-9	
2,2-Dichloropropane	**<566**	ug/L	1890	566	250		11/15/19 01:44	594-20-7	
1,1-Dichloropropene	**<135**	ug/L	450	135	250		11/15/19 01:44	563-58-6	
cis-1,3-Dichloropropene	**<907**	ug/L	3020	907	250		11/15/19 01:44	10061-01-5	
trans-1,3-Dichloropropene	**<1090**	ug/L	3640	1090	250		11/15/19 01:44	10061-02-6	
Diisopropyl ether	**<472**	ug/L	1570	472	250		11/15/19 01:44	108-20-3	
Ethylbenzene	**<54.5**	ug/L	250	54.5	250		11/15/19 01:44	100-41-4	
Hexachloro-1,3-butadiene	**<296**	ug/L	1250	296	250		11/15/19 01:44	87-68-3	
Isopropylbenzene (Cumene)	**<98.2**	ug/L	1250	98.2	250		11/15/19 01:44	98-82-8	
p-Isopropyltoluene	**<200**	ug/L	667	200	250		11/15/19 01:44	99-87-6	
Methylene Chloride	**<145**	ug/L	1250	145	250		11/15/19 01:44	75-09-2	
Methyl-tert-butyl ether	**<311**	ug/L	1040	311	250		11/15/19 01:44	1634-04-4	
Naphthalene	**<294**	ug/L	1250	294	250		11/15/19 01:44	91-20-3	
n-Propylbenzene	**<203**	ug/L	1250	203	250		11/15/19 01:44	103-65-1	
Styrene	**<116**	ug/L	388	116	250		11/15/19 01:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<67.3**	ug/L	250	67.3	250		11/15/19 01:44	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: MW-22 **Lab ID: 40199026025** Collected: 11/08/19 12:45 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<68.8**	ug/L	250	68.8	250		11/15/19 01:44	79-34-5	
Tetrachloroethene	**<81.6**	ug/L	272	81.6	250		11/15/19 01:44	127-18-4	
Toluene	**<43.0**	ug/L	1250	43.0	250		11/15/19 01:44	108-88-3	
1,2,3-Trichlorobenzene	**<156**	ug/L	1250	156	250		11/15/19 01:44	87-61-6	
1,2,4-Trichlorobenzene	**<238**	ug/L	1250	238	250		11/15/19 01:44	120-82-1	
1,1,1-Trichloroethane	**<61.2**	ug/L	250	61.2	250		11/15/19 01:44	71-55-6	
1,1,2-Trichloroethane	**<138**	ug/L	1250	138	250		11/15/19 01:44	79-00-5	
Trichloroethene	**71.2J**	ug/L	250	63.8	250		11/15/19 01:44	79-01-6	
Trichlorofluoromethane	**<53.7**	ug/L	250	53.7	250		11/15/19 01:44	75-69-4	
1,2,3-Trichloropropane	**<148**	ug/L	1250	148	250		11/15/19 01:44	96-18-4	
1,2,4-Trimethylbenzene	**<210**	ug/L	700	210	250		11/15/19 01:44	95-63-6	
1,3,5-Trimethylbenzene	**<218**	ug/L	728	218	250		11/15/19 01:44	108-67-8	
Vinyl chloride	**2210**	ug/L	250	43.7	250		11/15/19 01:44	75-01-4	
Xylene (Total)	**<375**	ug/L	750	375	250		11/15/19 01:44	1330-20-7	
m&p-Xylene	**<116**	ug/L	500	116	250		11/15/19 01:44	179601-23-1	
o-Xylene	**<65.5**	ug/L	250	65.5	250		11/15/19 01:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	78	%	70-130		250		11/15/19 01:44	460-00-4	
Dibromofluoromethane (S)	79	%	70-130		250		11/15/19 01:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130		250		11/15/19 01:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-9 **Lab ID: 40199026026** Collected: 11/08/19 12:50 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<246**	ug/L	1000	246	1000		11/15/19 02:06	71-43-2	
Bromobenzene	**<241**	ug/L	1000	241	1000		11/15/19 02:06	108-86-1	
Bromochloromethane	**<362**	ug/L	5000	362	1000		11/15/19 02:06	74-97-5	
Bromodichloromethane	**<364**	ug/L	1210	364	1000		11/15/19 02:06	75-27-4	
Bromoform	**<3970**	ug/L	13200	3970	1000		11/15/19 02:06	75-25-2	
Bromomethane	**<971**	ug/L	5000	971	1000		11/15/19 02:06	74-83-9	
n-Butylbenzene	**<708**	ug/L	2360	708	1000		11/15/19 02:06	104-51-8	
sec-Butylbenzene	**<849**	ug/L	5000	849	1000		11/15/19 02:06	135-98-8	
tert-Butylbenzene	**<304**	ug/L	1010	304	1000		11/15/19 02:06	98-06-6	
Carbon tetrachloride	**<166**	ug/L	1000	166	1000		11/15/19 02:06	56-23-5	
Chlorobenzene	**<711**	ug/L	2370	711	1000		11/15/19 02:06	108-90-7	
Chloroethane	**<1340**	ug/L	5000	1340	1000		11/15/19 02:06	75-00-3	
Chloroform	**<1270**	ug/L	5000	1270	1000		11/15/19 02:06	67-66-3	
Chloromethane	**<2190**	ug/L	7300	2190	1000		11/15/19 02:06	74-87-3	
2-Chlorotoluene	**<926**	ug/L	5000	926	1000		11/15/19 02:06	95-49-8	
4-Chlorotoluene	**<756**	ug/L	2520	756	1000		11/15/19 02:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<1760**	ug/L	5880	1760	1000		11/15/19 02:06	96-12-8	
Dibromochloromethane	**<2600**	ug/L	8670	2600	1000		11/15/19 02:06	124-48-1	
1,2-Dibromoethane (EDB)	**<829**	ug/L	2760	829	1000		11/15/19 02:06	106-93-4	
Dibromomethane	**<937**	ug/L	3120	937	1000		11/15/19 02:06	74-95-3	
1,2-Dichlorobenzene	**<705**	ug/L	2350	705	1000		11/15/19 02:06	95-50-1	
1,3-Dichlorobenzene	**<628**	ug/L	2090	628	1000		11/15/19 02:06	541-73-1	
1,4-Dichlorobenzene	**<944**	ug/L	3150	944	1000		11/15/19 02:06	106-46-7	
Dichlorodifluoromethane	**<500**	ug/L	5000	500	1000		11/15/19 02:06	75-71-8	
1,1-Dichloroethane	**<273**	ug/L	1000	273	1000		11/15/19 02:06	75-34-3	
1,2-Dichloroethane	**<280**	ug/L	1000	280	1000		11/15/19 02:06	107-06-2	
1,1-Dichloroethene	**362J**	ug/L	1000	245	1000		11/15/19 02:06	75-35-4	
cis-1,2-Dichloroethene	**67600**	ug/L	1000	271	1000		11/15/19 02:06	156-59-2	
trans-1,2-Dichloroethene	**<1090**	ug/L	3640	1090	1000		11/15/19 02:06	156-60-5	
1,2-Dichloropropane	**<283**	ug/L	1000	283	1000		11/15/19 02:06	78-87-5	
1,3-Dichloropropane	**<826**	ug/L	2750	826	1000		11/15/19 02:06	142-28-9	
2,2-Dichloropropane	**<2270**	ug/L	7550	2270	1000		11/15/19 02:06	594-20-7	
1,1-Dichloropropene	**<540**	ug/L	1800	540	1000		11/15/19 02:06	563-58-6	
cis-1,3-Dichloropropene	**<3630**	ug/L	12100	3630	1000		11/15/19 02:06	10061-01-5	
trans-1,3-Dichloropropene	**<4370**	ug/L	14600	4370	1000		11/15/19 02:06	10061-02-6	
Diisopropyl ether	**<1890**	ug/L	6290	1890	1000		11/15/19 02:06	108-20-3	
Ethylbenzene	**<218**	ug/L	1000	218	1000		11/15/19 02:06	100-41-4	
Hexachloro-1,3-butadiene	**<1180**	ug/L	5000	1180	1000		11/15/19 02:06	87-68-3	
Isopropylbenzene (Cumene)	**<393**	ug/L	5000	393	1000		11/15/19 02:06	98-82-8	
p-Isopropyltoluene	**<800**	ug/L	2670	800	1000		11/15/19 02:06	99-87-6	
Methylene Chloride	**<581**	ug/L	5000	581	1000		11/15/19 02:06	75-09-2	
Methyl-tert-butyl ether	**<1250**	ug/L	4150	1250	1000		11/15/19 02:06	1634-04-4	
Naphthalene	**<1180**	ug/L	5000	1180	1000		11/15/19 02:06	91-20-3	
n-Propylbenzene	**<811**	ug/L	5000	811	1000		11/15/19 02:06	103-65-1	
Styrene	**<465**	ug/L	1550	465	1000		11/15/19 02:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<269**	ug/L	1000	269	1000		11/15/19 02:06	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Sample: PZ-9 **Lab ID: 40199026026** Collected: 11/08/19 12:50 Received: 11/12/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<275**	ug/L	1000	275	1000		11/15/19 02:06	79-34-5	
Tetrachloroethene	**<326**	ug/L	1090	326	1000		11/15/19 02:06	127-18-4	
Toluene	**<172**	ug/L	5000	172	1000		11/15/19 02:06	108-88-3	
1,2,3-Trichlorobenzene	**<626**	ug/L	5000	626	1000		11/15/19 02:06	87-61-6	
1,2,4-Trichlorobenzene	**<951**	ug/L	5000	951	1000		11/15/19 02:06	120-82-1	
1,1,1-Trichloroethane	**<245**	ug/L	1000	245	1000		11/15/19 02:06	71-55-6	
1,1,2-Trichloroethane	**<552**	ug/L	5000	552	1000		11/15/19 02:06	79-00-5	
Trichloroethene	**49900**	ug/L	1000	255	1000		11/15/19 02:06	79-01-6	
Trichlorofluoromethane	**<215**	ug/L	1000	215	1000		11/15/19 02:06	75-69-4	
1,2,3-Trichloropropane	**<591**	ug/L	5000	591	1000		11/15/19 02:06	96-18-4	
1,2,4-Trimethylbenzene	**<841**	ug/L	2800	841	1000		11/15/19 02:06	95-63-6	
1,3,5-Trimethylbenzene	**<873**	ug/L	2910	873	1000		11/15/19 02:06	108-67-8	
Vinyl chloride	**4570**	ug/L	1000	175	1000		11/15/19 02:06	75-01-4	
Xylene (Total)	**<1500**	ug/L	3000	1500	1000		11/15/19 02:06	1330-20-7	
m&p-Xylene	**<465**	ug/L	2000	465	1000		11/15/19 02:06	179601-23-1	
o-Xylene	**<262**	ug/L	1000	262	1000		11/15/19 02:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1000		11/15/19 02:06	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1000		11/15/19 02:06	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1000		11/15/19 02:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

QC Batch: 340563 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199026001, 40199026002, 40199026003, 40199026004, 40199026005, 40199026006, 40199026007, 40199026008, 40199026009, 40199026010, 40199026011, 40199026012, 40199026013, 40199026014, 40199026015, 40199026016, 40199026017, 40199026018, 40199026019, 40199026020

METHOD BLANK: 1977421 Matrix: Water
Associated Lab Samples: 40199026001, 40199026002, 40199026003, 40199026004, 40199026005, 40199026006, 40199026007, 40199026008, 40199026009, 40199026010, 40199026011, 40199026012, 40199026013, 40199026014, 40199026015, 40199026016, 40199026017, 40199026018, 40199026019, 40199026020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/14/19 07:21	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/14/19 07:21	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/14/19 07:21	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/14/19 07:21	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/14/19 07:21	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/14/19 07:21	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/14/19 07:21	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/14/19 07:21	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/14/19 07:21	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/14/19 07:21	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/14/19 07:21	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/14/19 07:21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/14/19 07:21	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/14/19 07:21	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/14/19 07:21	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/14/19 07:21	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/14/19 07:21	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/14/19 07:21	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/14/19 07:21	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/14/19 07:21	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/14/19 07:21	
2-Chlorotoluene	ug/L	<0.93	5.0	11/14/19 07:21	
4-Chlorotoluene	ug/L	<0.76	2.5	11/14/19 07:21	
Benzene	ug/L	<0.25	1.0	11/14/19 07:21	
Bromobenzene	ug/L	<0.24	1.0	11/14/19 07:21	
Bromochloromethane	ug/L	<0.36	5.0	11/14/19 07:21	
Bromodichloromethane	ug/L	<0.36	1.2	11/14/19 07:21	
Bromoform	ug/L	<4.0	13.2	11/14/19 07:21	
Bromomethane	ug/L	<0.97	5.0	11/14/19 07:21	
Carbon tetrachloride	ug/L	<0.17	1.0	11/14/19 07:21	
Chlorobenzene	ug/L	<0.71	2.4	11/14/19 07:21	
Chloroethane	ug/L	<1.3	5.0	11/14/19 07:21	
Chloroform	ug/L	<1.3	5.0	11/14/19 07:21	
Chloromethane	ug/L	<2.2	7.3	11/14/19 07:21	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/14/19 07:21	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/14/19 07:21	
Dibromochloromethane	ug/L	<2.6	8.7	11/14/19 07:21	
Dibromomethane	ug/L	<0.94	3.1	11/14/19 07:21	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

METHOD BLANK: 1977421 Matrix: Water

Associated Lab Samples: 40199026001, 40199026002, 40199026003, 40199026004, 40199026005, 40199026006, 40199026007, 40199026008, 40199026009, 40199026010, 40199026011, 40199026012, 40199026013, 40199026014, 40199026015, 40199026016, 40199026017, 40199026018, 40199026019, 40199026020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/14/19 07:21	
Diisopropyl ether	ug/L	<1.9	6.3	11/14/19 07:21	
Ethylbenzene	ug/L	<0.22	1.0	11/14/19 07:21	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/14/19 07:21	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/14/19 07:21	
m&p-Xylene	ug/L	<0.47	2.0	11/14/19 07:21	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/14/19 07:21	
Methylene Chloride	ug/L	<0.58	5.0	11/14/19 07:21	
n-Butylbenzene	ug/L	<0.71	2.4	11/14/19 07:21	
n-Propylbenzene	ug/L	<0.81	5.0	11/14/19 07:21	
Naphthalene	ug/L	<1.2	5.0	11/14/19 07:21	
o-Xylene	ug/L	<0.26	1.0	11/14/19 07:21	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/14/19 07:21	
sec-Butylbenzene	ug/L	<0.85	5.0	11/14/19 07:21	
Styrene	ug/L	<0.47	1.6	11/14/19 07:21	
tert-Butylbenzene	ug/L	<0.30	1.0	11/14/19 07:21	
Tetrachloroethene	ug/L	<0.33	1.1	11/14/19 07:21	
Toluene	ug/L	<0.17	5.0	11/14/19 07:21	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/14/19 07:21	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/14/19 07:21	
Trichloroethene	ug/L	<0.26	1.0	11/14/19 07:21	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/14/19 07:21	
Vinyl chloride	ug/L	<0.17	1.0	11/14/19 07:21	
Xylene (Total)	ug/L	<1.5	3.0	11/14/19 07:21	
4-Bromofluorobenzene (S)	%	87	70-130	11/14/19 07:21	
Dibromofluoromethane (S)	%	95	70-130	11/14/19 07:21	
Toluene-d8 (S)	%	97	70-130	11/14/19 07:21	

LABORATORY CONTROL SAMPLE: 1977422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	70-130	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	47.9	96	73-150	
1,1-Dichloroethene	ug/L	50	51.0	102	73-138	
1,2,4-Trichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.4	91	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	70-130	
1,2-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dichloroethane	ug/L	50	51.2	102	75-140	
1,2-Dichloropropane	ug/L	50	46.9	94	73-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

LABORATORY CONTROL SAMPLE: 1977422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,4-Dichlorobenzene	ug/L	50	52.6	105	70-130	
Benzene	ug/L	50	50.6	101	70-130	
Bromodichloromethane	ug/L	50	52.5	105	70-130	
Bromoform	ug/L	50	57.0	114	68-129	
Bromomethane	ug/L	50	36.3	73	18-159	
Carbon tetrachloride	ug/L	50	54.0	108	70-130	
Chlorobenzene	ug/L	50	54.0	108	70-130	
Chloroethane	ug/L	50	47.1	94	53-147	
Chloroform	ug/L	50	50.1	100	74-136	
Chloromethane	ug/L	50	35.1	70	29-115	
cis-1,2-Dichloroethene	ug/L	50	42.0	84	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	47.7	95	10-130	
Ethylbenzene	ug/L	50	55.9	112	80-124	
Isopropylbenzene (Cumene)	ug/L	50	59.9	120	70-130	
m&p-Xylene	ug/L	100	119	119	70-130	
Methyl-tert-butyl ether	ug/L	50	44.8	90	54-137	
Methylene Chloride	ug/L	50	45.1	90	73-138	
o-Xylene	ug/L	50	58.4	117	70-130	
Styrene	ug/L	50	59.0	118	70-130	
Tetrachloroethene	ug/L	50	52.8	106	70-130	
Toluene	ug/L	50	52.8	106	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	73-145	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Trichloroethene	ug/L	50	54.1	108	70-130	
Trichlorofluoromethane	ug/L	50	63.0	126	76-147	
Vinyl chloride	ug/L	50	45.4	91	51-120	
Xylene (Total)	ug/L	150	177	118	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979000 1979001

Parameter	Units	40199026007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	55.6	56.5	111	113	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	51.3	55.1	103	110	70-130	7	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.3	50.0	95	100	70-137	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	49.3	49.6	99	99	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.7	49.7	103	99	73-138	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.2	55.4	106	111	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979000 1979001

Parameter	Units	40199026007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	45.7	49.1	91	98	58-129	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.7	52.3	99	105	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.9	52.5	104	105	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.9	50.7	100	101	75-140	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	46.7	48.0	93	96	71-138	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.8	51.6	100	103	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.3	52.4	101	105	70-130	4	20	
Benzene	ug/L	<0.25	50	50	50.0	50.1	100	100	70-130	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.0	51.5	102	103	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	53.8	55.2	108	110	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	37.9	37.8	76	76	15-170	0	20	
Carbon tetrachloride	ug/L	<0.17	50	50	54.1	53.8	108	108	70-130	1	20	
Chlorobenzene	ug/L	<0.71	50	50	52.5	53.6	105	107	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	45.9	46.5	92	93	51-148	1	20	
Chloroform	ug/L	<1.3	50	50	49.8	50.2	100	100	74-136	1	20	
Chloromethane	ug/L	<2.2	50	50	34.5	34.0	69	68	23-115	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.9	44.7	102	89	70-131	13	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.6	51.7	101	103	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.4	53.0	99	106	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	46.8	47.3	94	95	10-132	1	20	
Ethylbenzene	ug/L	<0.22	50	50	53.4	54.8	107	110	80-125	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	57.3	58.3	115	117	70-130	2	20	
m&p-Xylene	ug/L	<0.47	100	100	112	116	112	116	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.9	46.2	88	92	51-145	5	20	
Methylene Chloride	ug/L	<0.58	50	50	49.0	49.8	98	100	73-140	2	20	
o-Xylene	ug/L	<0.26	50	50	56.1	57.7	112	115	70-130	3	20	
Styrene	ug/L	<0.47	50	50	57.7	57.6	115	115	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.4	49.6	99	99	70-130	0	20	
Toluene	ug/L	<0.17	50	50	51.7	52.6	103	105	80-131	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	52.7	55.4	105	111	73-148	5	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	50.9	52.6	102	105	70-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	50.0	51.8	100	104	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	61.5	61.9	123	124	74-147	1	20	
Vinyl chloride	ug/L	<0.17	50	50	43.5	45.7	87	91	41-129	5	20	
Xylene (Total)	ug/L	<1.5	150	150	168	173	112	116	70-130	3	20	
4-Bromofluorobenzene (S)	%						101	99	70-130			
Dibromofluoromethane (S)	%						91	94	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

QC Batch: 340564 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199026021, 40199026022

METHOD BLANK: 1977423 Matrix: Water
Associated Lab Samples: 40199026021, 40199026022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/14/19 06:25	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/14/19 06:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/14/19 06:25	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/14/19 06:25	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/14/19 06:25	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/14/19 06:25	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/14/19 06:25	
1,2,3-Trichlorobenzene	ug/L	0.73J	5.0	11/14/19 06:25	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/14/19 06:25	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/14/19 06:25	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/14/19 06:25	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/14/19 06:25	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/14/19 06:25	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/14/19 06:25	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/14/19 06:25	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/14/19 06:25	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/14/19 06:25	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/14/19 06:25	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/14/19 06:25	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/14/19 06:25	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/14/19 06:25	
2-Chlorotoluene	ug/L	<0.93	5.0	11/14/19 06:25	
4-Chlorotoluene	ug/L	<0.76	2.5	11/14/19 06:25	
Benzene	ug/L	<0.25	1.0	11/14/19 06:25	
Bromobenzene	ug/L	<0.24	1.0	11/14/19 06:25	
Bromochloromethane	ug/L	<0.36	5.0	11/14/19 06:25	
Bromodichloromethane	ug/L	<0.36	1.2	11/14/19 06:25	
Bromoform	ug/L	<4.0	13.2	11/14/19 06:25	
Bromomethane	ug/L	<0.97	5.0	11/14/19 06:25	
Carbon tetrachloride	ug/L	<0.17	1.0	11/14/19 06:25	
Chlorobenzene	ug/L	<0.71	2.4	11/14/19 06:25	
Chloroethane	ug/L	<1.3	5.0	11/14/19 06:25	
Chloroform	ug/L	<1.3	5.0	11/14/19 06:25	
Chloromethane	ug/L	<2.2	7.3	11/14/19 06:25	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/14/19 06:25	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/14/19 06:25	
Dibromochloromethane	ug/L	<2.6	8.7	11/14/19 06:25	
Dibromomethane	ug/L	<0.94	3.1	11/14/19 06:25	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/14/19 06:25	
Diisopropyl ether	ug/L	<1.9	6.3	11/14/19 06:25	
Ethylbenzene	ug/L	<0.22	1.0	11/14/19 06:25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

METHOD BLANK: 1977423 Matrix: Water
Associated Lab Samples: 40199026021, 40199026022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/14/19 06:25	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/14/19 06:25	
m&p-Xylene	ug/L	<0.47	2.0	11/14/19 06:25	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/14/19 06:25	
Methylene Chloride	ug/L	<0.58	5.0	11/14/19 06:25	
n-Butylbenzene	ug/L	<0.71	2.4	11/14/19 06:25	
n-Propylbenzene	ug/L	<0.81	5.0	11/14/19 06:25	
Naphthalene	ug/L	<1.2	5.0	11/14/19 06:25	
o-Xylene	ug/L	<0.26	1.0	11/14/19 06:25	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/14/19 06:25	
sec-Butylbenzene	ug/L	<0.85	5.0	11/14/19 06:25	
Styrene	ug/L	<0.47	1.6	11/14/19 06:25	
tert-Butylbenzene	ug/L	<0.30	1.0	11/14/19 06:25	
Tetrachloroethene	ug/L	<0.33	1.1	11/14/19 06:25	
Toluene	ug/L	<0.17	5.0	11/14/19 06:25	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/14/19 06:25	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/14/19 06:25	
Trichloroethene	ug/L	<0.26	1.0	11/14/19 06:25	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/14/19 06:25	
Vinyl chloride	ug/L	<0.17	1.0	11/14/19 06:25	
Xylene (Total)	ug/L	<1.5	3.0	11/14/19 06:25	
4-Bromofluorobenzene (S)	%	79	70-130	11/14/19 06:25	
Dibromofluoromethane (S)	%	87	70-130	11/14/19 06:25	
Toluene-d8 (S)	%	97	70-130	11/14/19 06:25	

LABORATORY CONTROL SAMPLE: 1977424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	45.3	91	70-130	
1,1-Dichloroethane	ug/L	50	49.0	98	73-150	
1,1-Dichloroethene	ug/L	50	48.6	97	73-138	
1,2,4-Trichlorobenzene	ug/L	50	52.1	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.8	86	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	70-130	
1,2-Dichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dichloroethane	ug/L	50	46.8	94	75-140	
1,2-Dichloropropane	ug/L	50	47.3	95	73-135	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Bromodichloromethane	ug/L	50	52.6	105	70-130	
Bromoform	ug/L	50	54.2	108	68-129	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

LABORATORY CONTROL SAMPLE: 1977424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	43.6	87	18-159	
Carbon tetrachloride	ug/L	50	53.7	107	70-130	
Chlorobenzene	ug/L	50	52.1	104	70-130	
Chloroethane	ug/L	50	44.5	89	53-147	
Chloroform	ug/L	50	50.7	101	74-136	
Chloromethane	ug/L	50	36.4	73	29-115	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.5	101	70-130	
Dibromochloromethane	ug/L	50	53.0	106	70-130	
Dichlorodifluoromethane	ug/L	50	33.3	67	10-130	
Ethylbenzene	ug/L	50	56.0	112	80-124	
Isopropylbenzene (Cumene)	ug/L	50	60.0	120	70-130	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	41.2	82	54-137	
Methylene Chloride	ug/L	50	45.7	91	73-138	
o-Xylene	ug/L	50	54.9	110	70-130	
Styrene	ug/L	50	56.0	112	70-130	
Tetrachloroethene	ug/L	50	54.8	110	70-130	
Toluene	ug/L	50	53.6	107	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.1	102	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Trichloroethene	ug/L	50	53.4	107	70-130	
Trichlorofluoromethane	ug/L	50	53.2	106	76-147	
Vinyl chloride	ug/L	50	42.3	85	51-120	
Xylene (Total)	ug/L	150	170	113	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			92	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978288 1978289

Parameter	Units	40199011026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	54.0	54.9	108	110	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	51.9	52.1	104	104	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	44.1	47.4	88	95	70-137	7	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	48.8	51.4	98	103	73-153	5	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	46.7	50.6	93	101	73-138	8	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	56.3	57.1	113	114	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.2	52.0	94	104	58-129	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	46.8	50.8	94	102	70-130	8	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.8	52.8	106	106	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	47.7	48.8	95	98	75-140	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	48.3	46.3	97	93	71-138	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978288 1978289

Parameter	Units	40199011026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.8	53.4	106	107	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.8	53.2	106	106	70-130	1	20	
Benzene	ug/L	2.6	50	50	47.4	49.1	90	93	70-130	4	20	
Bromodichloromethane	ug/L	<0.36	50	50	55.1	53.0	110	106	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	52.8	57.3	106	115	68-129	8	20	
Bromomethane	ug/L	<0.97	50	50	46.7	51.2	93	102	15-170	9	20	
Carbon tetrachloride	ug/L	<0.17	50	50	54.3	55.9	109	112	70-130	3	20	
Chlorobenzene	ug/L	<0.71	50	50	53.3	52.7	107	105	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	42.8	43.1	86	86	51-148	1	20	
Chloroform	ug/L	<1.3	50	50	47.6	51.8	95	104	74-136	8	20	
Chloromethane	ug/L	<2.2	50	50	37.1	37.2	74	74	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.4	47.7	91	95	70-131	5	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.2	49.5	102	99	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.5	52.4	99	105	70-130	6	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	29.9	32.4	60	65	10-132	8	20	
Ethylbenzene	ug/L	2.2	50	50	59.4	58.2	115	112	80-125	2	20	
Isopropylbenzene (Cumene)	ug/L	0.75J	50	50	62.8	61.3	124	121	70-130	2	20	
m&p-Xylene	ug/L	0.56J	100	100	116	114	116	114	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.5	43.3	83	87	51-145	4	20	
Methylene Chloride	ug/L	<0.58	50	50	46.9	44.4	94	89	73-140	5	20	
o-Xylene	ug/L	0.42J	50	50	57.0	55.6	113	110	70-130	2	20	
Styrene	ug/L	<0.47	50	50	57.1	56.9	114	114	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	52.6	56.9	105	114	70-130	8	20	
Toluene	ug/L	<0.17	50	50	52.0	53.2	104	106	80-131	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	50.9	53.2	102	106	73-148	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.8	46.9	88	94	70-130	7	20	
Trichloroethene	ug/L	35.2	50	50	99.9	96.4	129	122	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.7	54.9	105	110	74-147	4	20	
Vinyl chloride	ug/L	<0.17	50	50	41.8	44.0	84	88	41-129	5	20	
Xylene (Total)	ug/L	<1.5	150	150	173	170	115	113	70-130	2	20	
4-Bromofluorobenzene (S)	%						102	99	70-130			
Dibromofluoromethane (S)	%						86	97	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

QC Batch: 340670 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199026023, 40199026024, 40199026025, 40199026026

METHOD BLANK: 1978180 Matrix: Water
Associated Lab Samples: 40199026023, 40199026024, 40199026025, 40199026026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/14/19 16:49	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/14/19 16:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/14/19 16:49	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/14/19 16:49	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/14/19 16:49	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/14/19 16:49	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/14/19 16:49	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/14/19 16:49	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/14/19 16:49	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/14/19 16:49	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/14/19 16:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/14/19 16:49	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/14/19 16:49	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/14/19 16:49	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/14/19 16:49	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/14/19 16:49	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/14/19 16:49	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/14/19 16:49	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/14/19 16:49	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/14/19 16:49	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/14/19 16:49	
2-Chlorotoluene	ug/L	<0.93	5.0	11/14/19 16:49	
4-Chlorotoluene	ug/L	<0.76	2.5	11/14/19 16:49	
Benzene	ug/L	<0.25	1.0	11/14/19 16:49	
Bromobenzene	ug/L	<0.24	1.0	11/14/19 16:49	
Bromochloromethane	ug/L	<0.36	5.0	11/14/19 16:49	
Bromodichloromethane	ug/L	<0.36	1.2	11/14/19 16:49	
Bromoform	ug/L	<4.0	13.2	11/14/19 16:49	
Bromomethane	ug/L	<0.97	5.0	11/14/19 16:49	
Carbon tetrachloride	ug/L	<0.17	1.0	11/14/19 16:49	
Chlorobenzene	ug/L	<0.71	2.4	11/14/19 16:49	
Chloroethane	ug/L	<1.3	5.0	11/14/19 16:49	
Chloroform	ug/L	<1.3	5.0	11/14/19 16:49	
Chloromethane	ug/L	<2.2	7.3	11/14/19 16:49	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/14/19 16:49	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/14/19 16:49	
Dibromochloromethane	ug/L	<2.6	8.7	11/14/19 16:49	
Dibromomethane	ug/L	<0.94	3.1	11/14/19 16:49	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/14/19 16:49	
Diisopropyl ether	ug/L	<1.9	6.3	11/14/19 16:49	
Ethylbenzene	ug/L	<0.22	1.0	11/14/19 16:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

METHOD BLANK: 1978180 Matrix: Water
Associated Lab Samples: 40199026023, 40199026024, 40199026025, 40199026026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/14/19 16:49	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/14/19 16:49	
m&p-Xylene	ug/L	<0.47	2.0	11/14/19 16:49	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/14/19 16:49	
Methylene Chloride	ug/L	<0.58	5.0	11/14/19 16:49	
n-Butylbenzene	ug/L	<0.71	2.4	11/14/19 16:49	
n-Propylbenzene	ug/L	<0.81	5.0	11/14/19 16:49	
Naphthalene	ug/L	<1.2	5.0	11/14/19 16:49	
o-Xylene	ug/L	<0.26	1.0	11/14/19 16:49	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/14/19 16:49	
sec-Butylbenzene	ug/L	<0.85	5.0	11/14/19 16:49	
Styrene	ug/L	<0.47	1.6	11/14/19 16:49	
tert-Butylbenzene	ug/L	<0.30	1.0	11/14/19 16:49	
Tetrachloroethene	ug/L	<0.33	1.1	11/14/19 16:49	
Toluene	ug/L	<0.17	5.0	11/14/19 16:49	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/14/19 16:49	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/14/19 16:49	
Trichloroethene	ug/L	<0.26	1.0	11/14/19 16:49	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/14/19 16:49	
Vinyl chloride	ug/L	<0.17	1.0	11/14/19 16:49	
Xylene (Total)	ug/L	<1.5	3.0	11/14/19 16:49	
4-Bromofluorobenzene (S)	%	86	70-130	11/14/19 16:49	
Dibromofluoromethane (S)	%	83	70-130	11/14/19 16:49	
Toluene-d8 (S)	%	98	70-130	11/14/19 16:49	

LABORATORY CONTROL SAMPLE: 1978181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.9	90	70-130	
1,1,2-Trichloroethane	ug/L	50	42.5	85	70-130	
1,1-Dichloroethane	ug/L	50	43.8	88	73-150	
1,1-Dichloroethene	ug/L	50	45.9	92	73-138	
1,2,4-Trichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.4	95	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	42.2	84	75-140	
1,2-Dichloropropane	ug/L	50	42.8	86	73-135	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	42.1	84	70-130	
Bromodichloromethane	ug/L	50	46.9	94	70-130	
Bromoform	ug/L	50	50.2	100	68-129	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

LABORATORY CONTROL SAMPLE: 1978181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	43.2	86	18-159	
Carbon tetrachloride	ug/L	50	46.9	94	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	43.1	86	53-147	
Chloroform	ug/L	50	43.9	88	74-136	
Chloromethane	ug/L	50	36.6	73	29-115	
cis-1,2-Dichloroethene	ug/L	50	41.5	83	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.3	93	70-130	
Dibromochloromethane	ug/L	50	50.7	101	70-130	
Dichlorodifluoromethane	ug/L	50	32.0	64	10-130	
Ethylbenzene	ug/L	50	52.6	105	80-124	
Isopropylbenzene (Cumene)	ug/L	50	55.6	111	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	39.3	79	54-137	
Methylene Chloride	ug/L	50	42.9	86	73-138	
o-Xylene	ug/L	50	50.9	102	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	51.6	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	47.0	94	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Trichloroethene	ug/L	50	49.5	99	70-130	
Trichlorofluoromethane	ug/L	50	49.2	98	76-147	
Vinyl chloride	ug/L	50	40.0	80	51-120	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			84	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978182 1978183

Parameter	Units	40199084002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	46.6	51.5	93	103	70-130	10	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.3	49.3	107	99	70-130	8	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	37.3	45.4	75	91	70-137	20	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	45.0	48.2	90	96	73-153	7	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	48.0	49.3	96	99	73-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.1	55.8	106	112	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	35.3	47.6	71	95	58-129	30	20	R1
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	42.0	50.2	84	100	70-130	18	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.1	52.0	100	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	41.5	44.9	83	90	75-140	8	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	42.8	45.2	86	90	71-138	6	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978182 1978183

Parameter	Units	40199084002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.0	52.0	102	104	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.0	51.4	100	103	70-130	3	20	
Benzene	ug/L	<0.25	50	50	37.1	44.8	74	90	70-130	19	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.1	50.1	102	100	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	47.7	52.6	95	105	68-129	10	20	
Bromomethane	ug/L	<0.97	50	50	53.4	51.9	107	104	15-170	3	20	
Carbon tetrachloride	ug/L	<0.17	50	50	47.5	51.7	95	103	70-130	8	20	
Chlorobenzene	ug/L	<0.71	50	50	51.7	51.8	103	104	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	44.1	48.5	88	97	51-148	10	20	
Chloroform	ug/L	<1.3	50	50	46.2	46.4	92	93	74-136	0	20	
Chloromethane	ug/L	<2.2	50	50	43.5	45.0	87	90	23-115	4	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	42.1	44.4	84	89	70-131	5	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	45.2	49.0	90	98	70-130	8	20	
Dibromochloromethane	ug/L	<2.6	50	50	41.3	51.0	83	102	70-130	21	20	R1
Dichlorodifluoromethane	ug/L	<0.50	50	50	46.7	48.8	93	98	10-132	4	20	
Ethylbenzene	ug/L	<0.22	50	50	55.8	55.7	112	111	80-125	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	58.9	60.4	118	121	70-130	3	20	
m&p-Xylene	ug/L	<0.47	100	100	107	111	107	111	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	37.3	43.1	75	86	51-145	14	20	
Methylene Chloride	ug/L	<0.58	50	50	44.4	46.7	89	93	73-140	5	20	
o-Xylene	ug/L	<0.26	50	50	51.3	54.6	103	109	70-130	6	20	
Styrene	ug/L	<0.47	50	50	51.8	55.4	104	111	70-130	7	20	
Tetrachloroethene	ug/L	<0.33	50	50	53.0	53.3	106	107	70-130	1	20	
Toluene	ug/L	<0.17	50	50	50.9	52.5	102	105	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	48.9	52.2	98	104	73-148	6	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	36.1	44.8	72	90	70-130	21	20	R1
Trichloroethene	ug/L	<0.26	50	50	48.6	51.2	97	102	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	53.3	54.8	107	110	74-147	3	20	
Vinyl chloride	ug/L	<0.17	50	50	47.5	49.8	95	100	41-129	5	20	
Xylene (Total)	ug/L	<1.5	150	150	158	166	106	110	70-130	4	20	
4-Bromofluorobenzene (S)	%						95	101	70-130			
Dibromofluoromethane (S)	%						84	89	70-130			
Toluene-d8 (S)	%						95	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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60578356 MANKOWSKI
Pace Project No.: 40199026

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199026001	**TRIP BLANK**	EPA 8260	340563		
40199026002	**MW-25**	EPA 8260	340563		
40199026003	**SMW-3**	EPA 8260	340563		
40199026004	**SMW-2**	EPA 8260	340563		
40199026005	**MW-16**	EPA 8260	340563		
40199026006	**MW-24**	EPA 8260	340563		
40199026007	**MW-13**	EPA 8260	340563		
40199026008	**MW-12**	EPA 8260	340563		
40199026009	**MW-14R**	EPA 8260	340563		
40199026010	**MW-15**	EPA 8260	340563		
40199026011	**PZ-14**	EPA 8260	340563		
40199026012	**TW-2**	EPA 8260	340563		
40199026013	**TW-1**	EPA 8260	340563		
40199026014	**MW-26**	EPA 8260	340563		
40199026015	**PZ-9B**	EPA 8260	340563		
40199026016	**MW-18**	EPA 8260	340563		
40199026017	**MW-20**	EPA 8260	340563		
40199026018	**MW-21**	EPA 8260	340563		
40199026019	**MW-19**	EPA 8260	340563		
40199026020	**MW-19D**	EPA 8260	340563		
40199026021	**MW-23**	EPA 8260	340564		
40199026022	**MW-27**	EPA 8260	340564		
40199026023	**MW-27D**	EPA 8260	340670		
40199026024	**MW-9R**	EPA 8260	340670		
40199026025	**MW-22**	EPA 8260	340670		
40199026026	**PZ-9**	EPA 8260	340670		

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CHAIN-OF-CUSTODY / Analytical Request Document

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40199026

Page: 1 of 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM - Milw	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department
Address: 1555 N. River Center Dr., Suite 214	Copy To: Joel Mackinney	Company Name: City of Kenosha
Milwaukee, WI 53212		Address: 652 52nd St., Kenosha, WI 53140
Email To: Lanette.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: Mankowski	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60578356	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC X WI OTHER___

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Sample ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	Trip Blank	WT	G			11/7/19	940		2				X						X		
2	MW-25	WT					1025		3				X						X		
3	SMW-3	WT					1030						X						X		
4	SMW-2	WT					1200						X						X		
5	MW-16	WT					1205						X						X		
6	MW-24	WT					1325						X						X		
7	MW-13	WT					1340						X						X		
8	MW-12	WT					1415						X						X		
9	MW-14R	WT					1430						X						X		
10	MW-15	WT					1505						X						X		
11	PZ-14	WT					1510						X						X		
12	TW-2	WT				11/8/19	740						X						X		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Joel Mackinney	11/11/19	0900	Mary Fanning	11/11/19	11:30
Mary Fanning	11/11/19	1345			
CS Vojtsks	11/12/19	0825		11/12/19	0825

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
NOT	(Y) N	(Y) N	(Y) N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JSM +EMS

SIGNATURE of SAMPLER: Joel Mackinney

DATE Signed (MM / DD / YY): 11/11/2019

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CHAIN-OF-CUSTODY / Analytical Request Document

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40199026

Page: 2 of 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: AECOM - Milw	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department
Address: 1555 N. River Center Dr., Suite 214	Copy To: Joel Mackinney	Company Name: City of Kenosha
Milwaukee, WI 53212		Address: 652 52nd St., Kenosha, WI 53140
Email To: Lanette.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: Mankowski	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60578356	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC X WI OTHER___

Section D Required Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	TW-1 013	WT	G			11/8/19	800		3				X					X		
2	MW-26 014	WT					840						X					X		
3	PZ-9B 015	WT					0900						X					X		
4	MW-18 016	WT					930						X					X		
5	MW-20 017	WT					1000						X					X		
6	MW-21 018	WT					1010						X					X		
7	MW-19 019	WT					1110						X					X		
8	MW-19D 020	WT					1110						X					X		
9	MW-23 021	WT					1115						X					X		
10	MW-27 022	WT					1200						X					X		
11	MW-27D 023	WT					1200						X					X		
12	MW-9R 024	WT					1205						X					X		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Joel Mackinney AECOM	11/11/19	0900	Mary Lanni	11/11/19	1130
Mary Lanni	11/11/19	1345			
[illegible]	11/12/19	0825	[illegible]	11/12/19	0825

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
[illegible]	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JSM + EMS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 11/11/19

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CHAIN-OF-CUSTODY / Analytical Request Document

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40199026

Page: 3 of 3

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
Company: AECOM - Milw	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department
Address: 1555 N. River Center Dr., Suite 214	Copy To: Joel Mackinney	Company Name: City of Kenosha
Milwaukee, WI 53212		Address: 652 52nd St., Kenosha, WI 53140
Email To: Lanette.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: Mankowski	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60578356	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES _X_GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC _X_WI OTHER___

Section D **Required** Client Information

SAMPLE ID

One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D.
1	MW-22 025	WT	G			11/8/19	1245		3				X					X		
2	PZ-9 026	WT	G			↓	1250		3				X					X		
3		WT																		
4		WT																		
5		WT																		
6		WT																		
7		WT																		
8		WT																		
9		WT																		
10		WT																		
11		WT																		
12		WT																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Joel Mackinney AECOM	11/11/19	0900	Mary Lamm	11/11/19	11:30
Mary Lamm	11/11/19	1345			
[illegible]	11/12/19	0825	[illegible]	11/12/19	0825

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
RAT	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JSM + EMS

SIGNATURE of SAMPLER: Joel Mackinney DATE Signed (MM / DD / YY): 11/11/19

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

Sample Preservation Receipt Form

Client Name: Acom Project # Y0199026

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Initial when completed: Date/ Time:

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

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		2															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3															2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		3															2.5 / 5 / 10
016																		3															2.5 / 5 / 10
017																		3															2.5 / 5 / 10
018																		3															2.5 / 5 / 10
019																		3															2.5 / 5 / 10
020																		3															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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Preservation Receipt Form

Client Name: Aecom Project #: 40199026

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
021																		3															2.5 / 5 / 10
022																		3															2.5 / 5 / 10
023																		3															2.5 / 5 / 10
024																		3															2.5 / 5 / 10
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																																	2.5 / 5 / 20

11/12/11 KJ

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40199026

40199026

Client Name: Aecom

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

Cooler Temperature Uncorr: NA /Corr:

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

Person examining contents:
Date: 11/12/19
Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 433		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: CLA **Date:** 11/13/19

AECOM Environment
1555 N. RiverCenter Drive, Suite 214, Milwaukee, WI 53212
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Memorandum

Date: November 19, 2019

To: Lanette Altenbach, Project Manager (PG)

From: Lisa Smith, Environmental Chemist (CEAC)

Subject: Data Validation - Analytical Groundwater Results for November 2019
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

SUMMARY

Data validation was performed on the analytical results of the groundwater samples collected for volatile organic compounds (VOCs) as listed in Table 1 below. The samples were collected at the Kenosha WI site on November 7 and 8, 2019. Groundwater samples were submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery group (SDG) 40199026.

The analytical data were evaluated with reference to the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review (January 2017). The National Functional Guidelines were modified to accommodate the non-CLP methodology. Laboratory control limits and/or method criteria were used as appropriate as the basis for validation actions.

Based on the results of the validation, the data are valid as reported and may be used for decision making purposes. Results did not require qualification due to QC exceedances. Results reported below the limit of quantitation (LOQ) were qualified as estimated (J) by the laboratory; qualifications of these results were accepted by the Validator.

METHODS

The samples were analyzed by the methods listed below.

- SW-846 8260 – Volatile Organic Compounds (VOCs) by Gas Chromatography/Mass Spectrometry (GC/MS)

SAMPLES

The samples included in this review are listed below.

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Table 1 - Sample Summary
Kenosha Mankowski Property Groundwater Samples

Field ID	QC	Date Sampled	Laboratory ID	Analyses
Groundwater Samples:				
MW-9R		11/8/2019	40199026024	VOCs
PZ-9		11/8/2019	40199026026	VOCs
PZ-9B		11/8/2019	40199026015	VOCs
MW-12		11/7/2019	40199026008	VOCs
MW-13	MS/MSD	11/7/2019	40199026007	VOCs
MW-14R		11/7/2019	40199026009	VOCs
PZ-14		11/7/2019	40199026011	VOCs
MW-15		11/7/2019	40199026010	VOCs
MW-16		11/7/2019	40199026005	VOCs
MW-18		11/8/2019	40199026016	VOCs
MW-19		11/8/2019	40199026019	VOCs
MW-19D	Field Duplicate of MW-19	11/8/2019	40199026020	VOCs
MW-20		11/8/2019	40199026017	VOCs
MW-21		11/8/2019	40199026018	VOCs
MW-22		11/8/2019	40199026025	VOCs
MW-23		11/8/2019	40199026021	VOCs
MW-24		11/7/2019	40199026006	VOCs
MW-25		11/7/2019	40199026002	VOCs
MW-26		11/8/2019	40199026014	VOCs
MW-27		11/8/2019	40199026022	VOCs
MW-27D	Field Duplicate of MW-27	11/8/2019	40199026023	VOCs
SMW-2		11/7/2019	40199026004	VOCs
SMW-3		11/7/2019	40199026003	VOCs
TW-1		11/8/2019	40199026013	VOCs
TW-2		11/8/2019	40199026012	VOCs
Field QC Blanks:				
TRIP BLANK		11/7/2019	40199026001	VOCs

REVIEW ELEMENTS

A limited data validation was performed on the samples. Quality control (QC) parameters listed below were reviewed, if applicable to the methodology.

Limited Validation
Holding Time
Method Blanks
Trip Blanks
Surrogate Recoveries
Laboratory Control Sample/Laboratory Control Sample Duplicates
Matrix Spikes/Matrix Spike Duplicates
Quantitation Limits
Field Duplicates

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DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition. The groundwater samples were received on ice.

Holding Times

Samples were analyzed within holding time.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Compounds were not detected in the associated method blanks, with the exception of 1,2,3-trichlorobenzene. 1,2,3-Trichlorobenzene was detected in the method blank for batch 340564 at a concentration of 0.73 J ug/L. 1,2,3-Trichlorobenzene was not detected in the samples.

Trip Blanks

Trip blanks are used to assess contamination from sample shipping. One trip blank was associated with the sample shipment. Compounds were not detected in the trip blank.

Surrogate Recoveries

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. The surrogates are organic compounds similar to the target compounds in chemical composition and behavior in the analytical process, but are not usually found in environmental samples. Surrogate recoveries were within the laboratory specified QC limits.

Laboratory Control Samples (LCSs)

LCSs are analyzed to monitor the accuracy and precision of the analytical method independent of matrix effects. The LCS recoveries were within the laboratory specified QC limits.

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. MS/MSD data were provided from batch analysis. Sample MW-13 was analyzed as an MS/MSD as indicated in Table 1. MS/MSD recoveries and relative percent differences (RPDs) were within the laboratory specified QC limits. Non-project MS/MSDs provided from batch analyses are not applicable and were not evaluated.

Quantitation

Samples required dilution due to high analyte concentrations. The dilutions were required to bring the sample concentrations within the instrument calibration range and were appropriate.

Field Duplicates

Field duplicates are collected to assess the overall precision of field sampling and laboratory analysis. Field duplicate precision is summarized below. RPDs were within the 30 percent limit for groundwater and were acceptable.

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Field Duplicate Results

Compound	Units	LOQ	Sample Concentration	Field Duplicate Concentration	RPD (%)
MW-19/MW-19D:					
Benzene	ug/L	10.0	2.5	<2.5	0.0
cis-1,2-Dichloroethene	ug/L	10.0	515	478	7.5
trans-1,2-Dichloroethene	ug/L	36.4	44.2	56.2	23.9
Trichloroethene	ug/L	10.0	1010	958	5.3
Vinyl chloride	ug/L	10.0	32.2	26.8	18.3
Xylene (Total)	ug/L	30.0	<15	<15	0.0
MW-27/MW-27D:					
1,1-Dichloroethene	ug/L	125	34.4	36.8	6.7
cis-1,2-Dichloroethene	ug/L	125	9430	9430	0.0
Trichloroethene	ug/L	125	143	144	0.7
Vinyl chloride	ug/L	125	1140	1210	6.0