

July 1, 2019

AECOM Project:60578356

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

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

Dear Ms. Billingsley,

AECOM conducted the third groundwater sampling events on May 6th and 7th 2019, as part of the semi-annual groundwater monitoring plan for 2018 and 2019 at the former Mankowski property (Property). The sampling was conducted as described in Task Order 125-051418 for the City of Kenosha (May 14, 2018). The purpose of this letter is to transmit the results of the May 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 May 2019 sampling event, each of the 23 planned groundwater monitoring wells/piezometers were sampled. Monitoring wells MW-16 and MW-18, not found for the 2018 sampling events, were located in May 2019 and 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.

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).

Groundwater Results

Contoured groundwater elevations from the May 2019 measurements depict groundwater flow to the east-northeast (Figure 3), consistent with the flow direction determined by AECOM previously.

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

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

Detected VOC	Wells Exceeding the ES	Wells Exceeding the PAL
1,1-Dichloroethene	MW-22, MW-23, MW-27	MW-19, MW-20, and MW-21
cis-1,2-Dichloroethene	MW-9R, PZ-9, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, and MW-27	MW-16, MW-25, MW-26, and SMW-2
Trichloroethene	MW-9R, PZ-9, PZ-9B, MW-16, MW-18, MW-19, MW-21, MW-22, MW-23, MW-25, MW-27, and SMW-2	MW-24, MW-26, and SMW-3
Vinyl chloride	MW-9R, PZ-9, MW-16, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-25, MW-26, and MW-27	No wells with PAL exceedances

Groundwater analytical data from the May 2019 sampling event is similar to previous groundwater sampling events completed at the Property. Enforcement Standard (ES) exceedances for VOCs were detected in 14 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 monitoring wells MW-15 or MW-14R. TCE was not detected in downgradient temporary well TW-2. It is assumed that the TCE detection in TW-2 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. While PZ-9 depicts a slightly increasing concentration, the concentrations are lower than seen previously and more recently trend up and down with the groundwater elevation suggesting that some concentration remains 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.

Conclusions

The overall groundwater plume appears to be stable or decreasing. Further evaluation will be conducted with a November 2019 sampling event.

Please contact us if you have questions about this letter.

Yours sincerely,



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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 – May 2019
Figure 4 – Groundwater Analytical Summary ES Exceedances – May 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

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

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	--	--

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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

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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

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ft = feet NI = Not Installed
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-- 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

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-8	7/21/2011	7.50	0.73	36	NM	13.2
	4/11/2012	7.00	1.00	44	NM	10.4
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
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
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
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
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
MW-16	7/21/2011	7.20	0.2	-109	NM	13.1
	4/12/2012	7.30	1.7	21	NM	10.8
MW-17	7/21/2011	7.30	0.2	-141	NM	12.4
	4/12/2012	7.40	1.2	-85	NM	11.0
	7/5/2016	6.97	1.39	-26.9	1701	16.1
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

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-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
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
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
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
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
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
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

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-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
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
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
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
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
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
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
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
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

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	
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	<u>4</u>	< 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	<u>2</u>	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	<u>3</u>	< 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	<u>1</u>	< 0.5	< 0.5	
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	<u>2</u>	< 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	< 0.5	NPD	<u>1</u>	< 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	< 0.29	NPD	<u>1</u>	< 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	< 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	< 0.85	NPD	<u>1.32^J</u>	< 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	< 0.85	NPD	<u>2.11</u>	< 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	NPD	<u>4.6</u>	< 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	NPD	9.1	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	<u>7.7</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	NPD	22.9	< 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	< 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	< 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	< 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	NPD	< 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	NPD	< 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	<u>1</u>	< 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	< 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	< 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	< 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	NPD	< 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	NPD	<u>0.42^J</u>	< 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
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
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	
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	17.0	< 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	
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
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
SMW-2	6/28/2005	< 1	NPD	< 1	< 1	0.36 ^J	< 1	< 1	<u>3.4</u>	< 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	<u>8.4^J</u>	< 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	<u>50</u>	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	<u>28.5</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	28	< 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	<u>0.50^J</u>	< 0.17	< 1.5
	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
TW-1	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
	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
TW-2	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	<u>0.60^J</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	<u>2.1</u>	< 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.

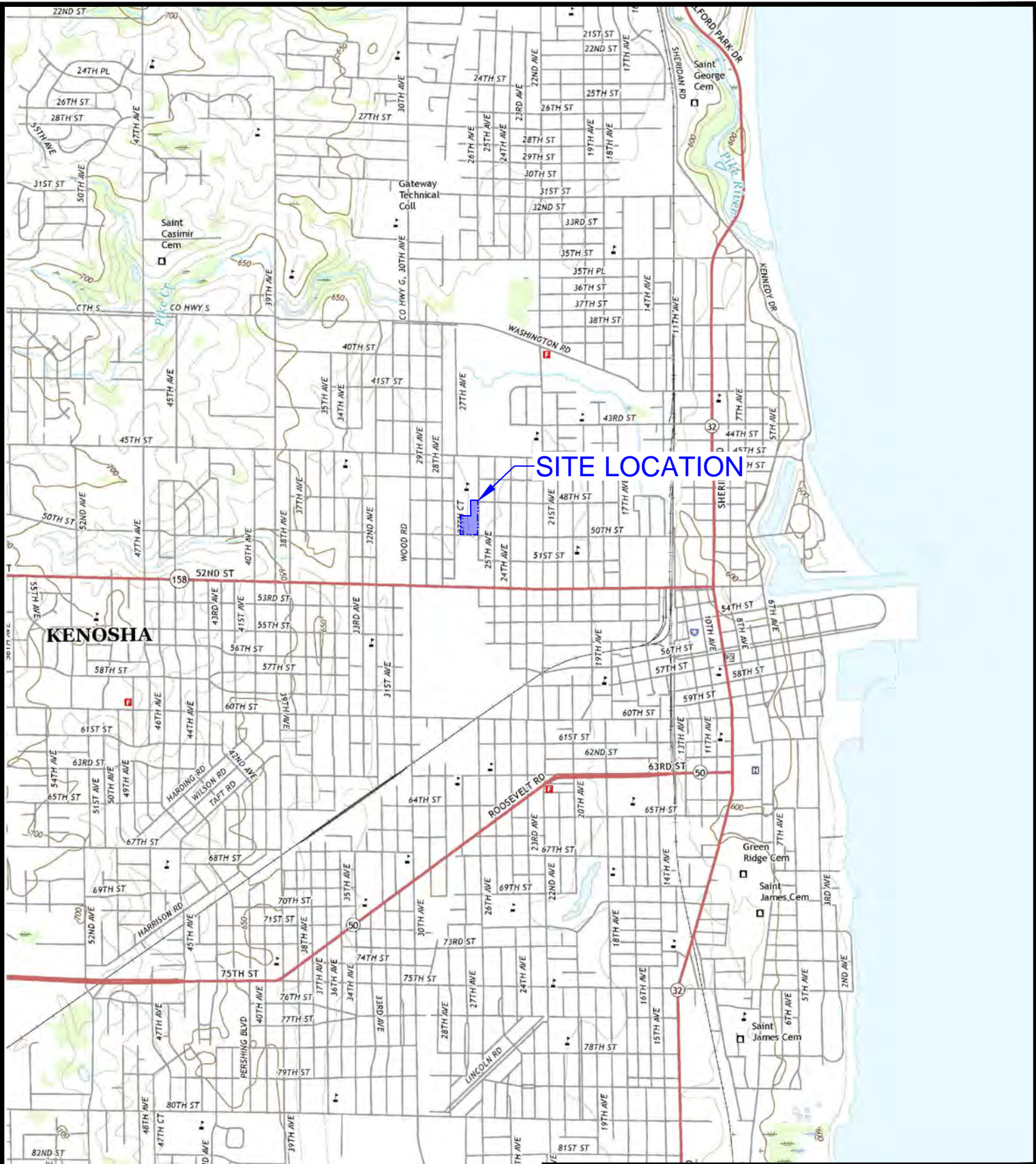
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances are **Bold**.

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

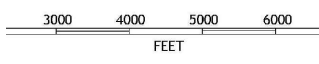
Data prior to 2016 was collected by prior consultants and the data quality/data quality qualifiers are carried over from prior reports.

File: \\usmwmk1f801\prod\Dat\Projects\60578356\900_00\Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED: November 27, 2018 - 9:37 AM



SITE LOCATION

KENOSHA



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

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

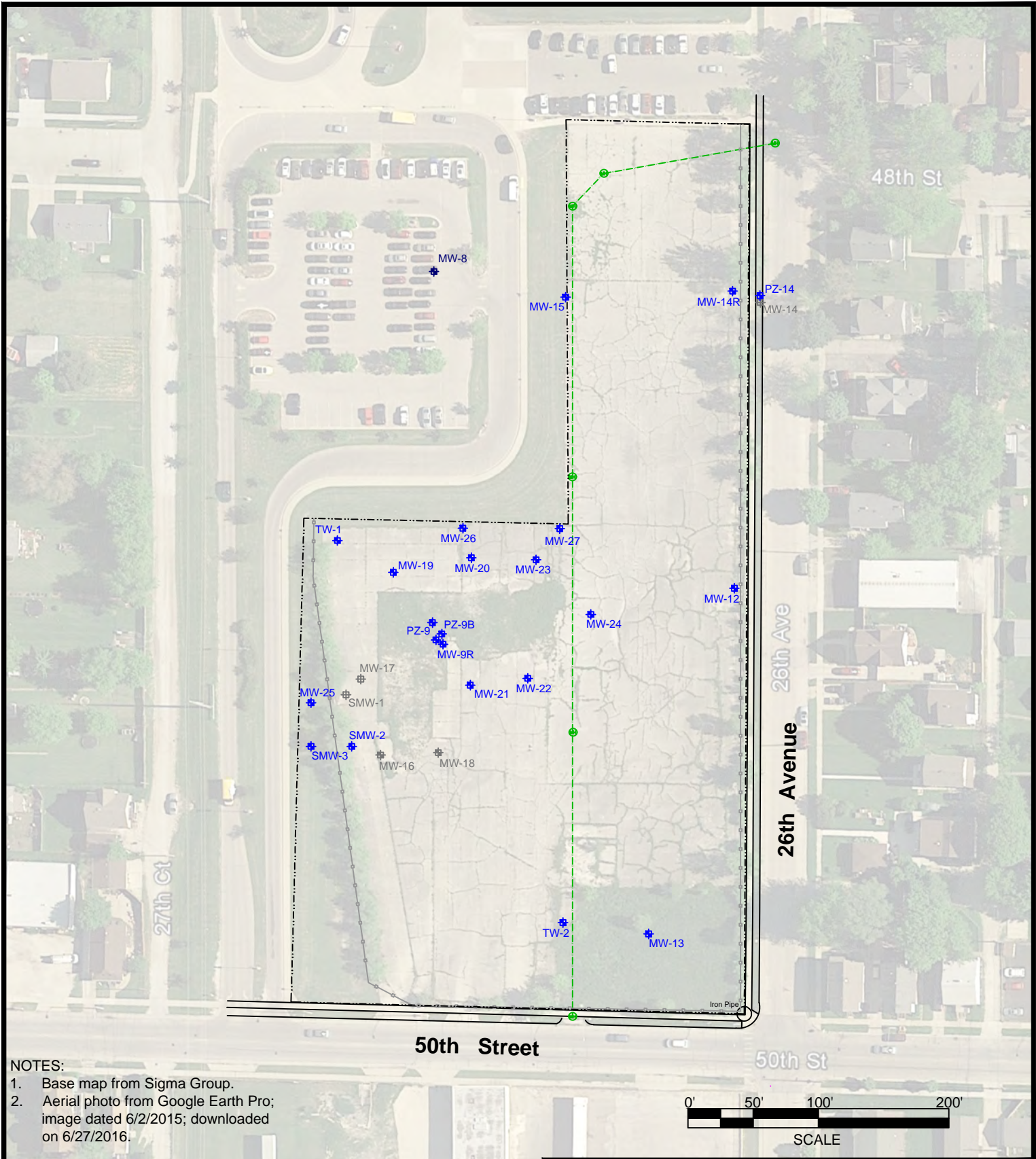


Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

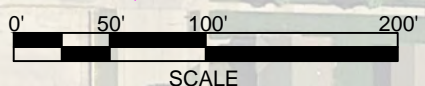
SITE LOCATION

Project Number: 60578356 Drawn By: SAE/ANM Date: 11/27/2018 Figure No. 1

File: \\usmwwk1f19001\prod\Dat\Projects\60578356\900_00\Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED: November 27, 2018 - 9:41 AM



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



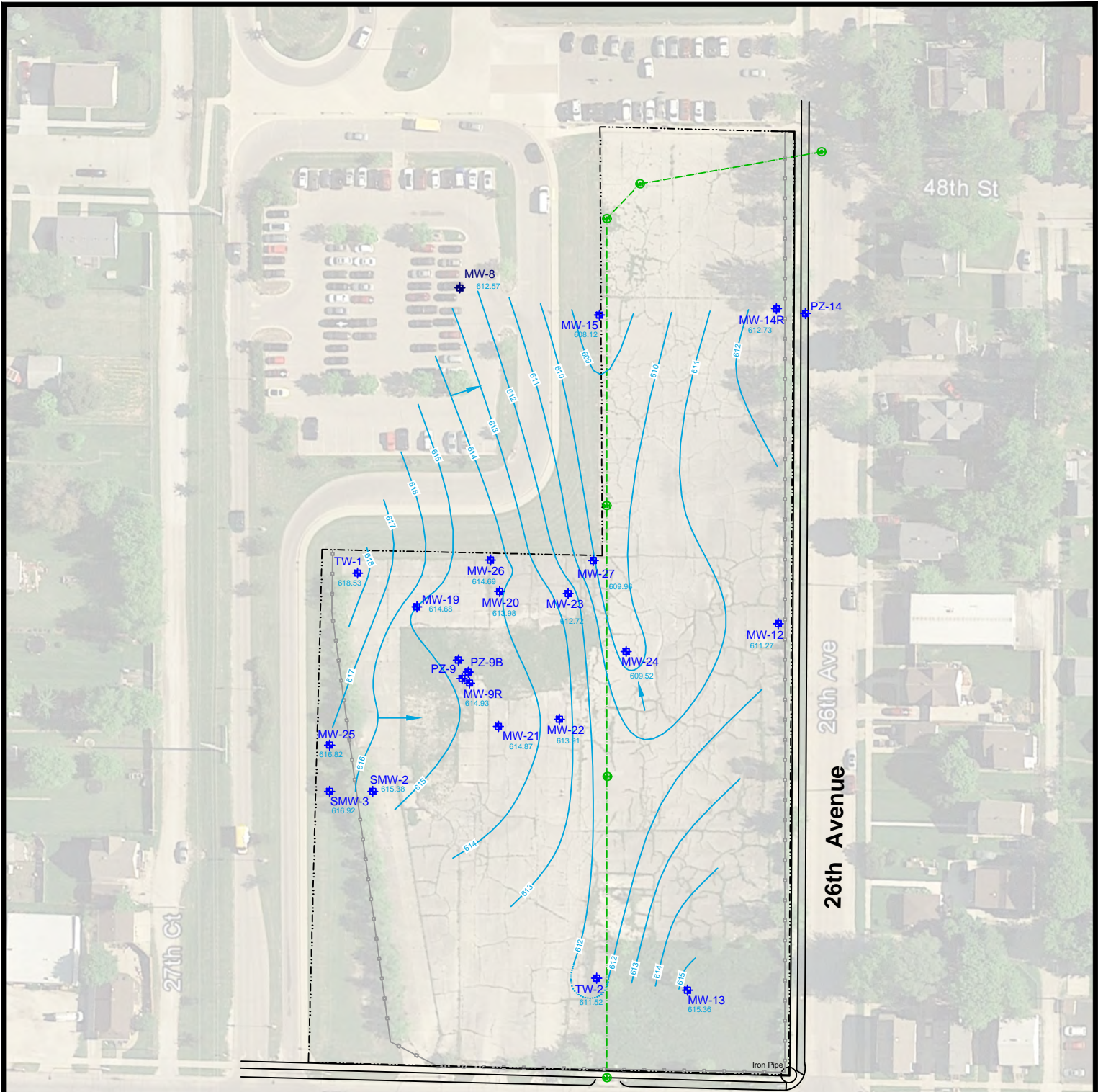
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Mankowski Site
 50th Street and 26th Avenue
 Kenosha, WI

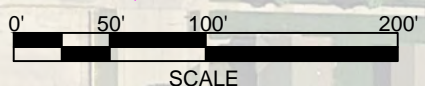
SITE LAYOUT



Project Number: 60578356	Drawn By: SAE/ANM	Date: 11/27/2018	Figure No. 2
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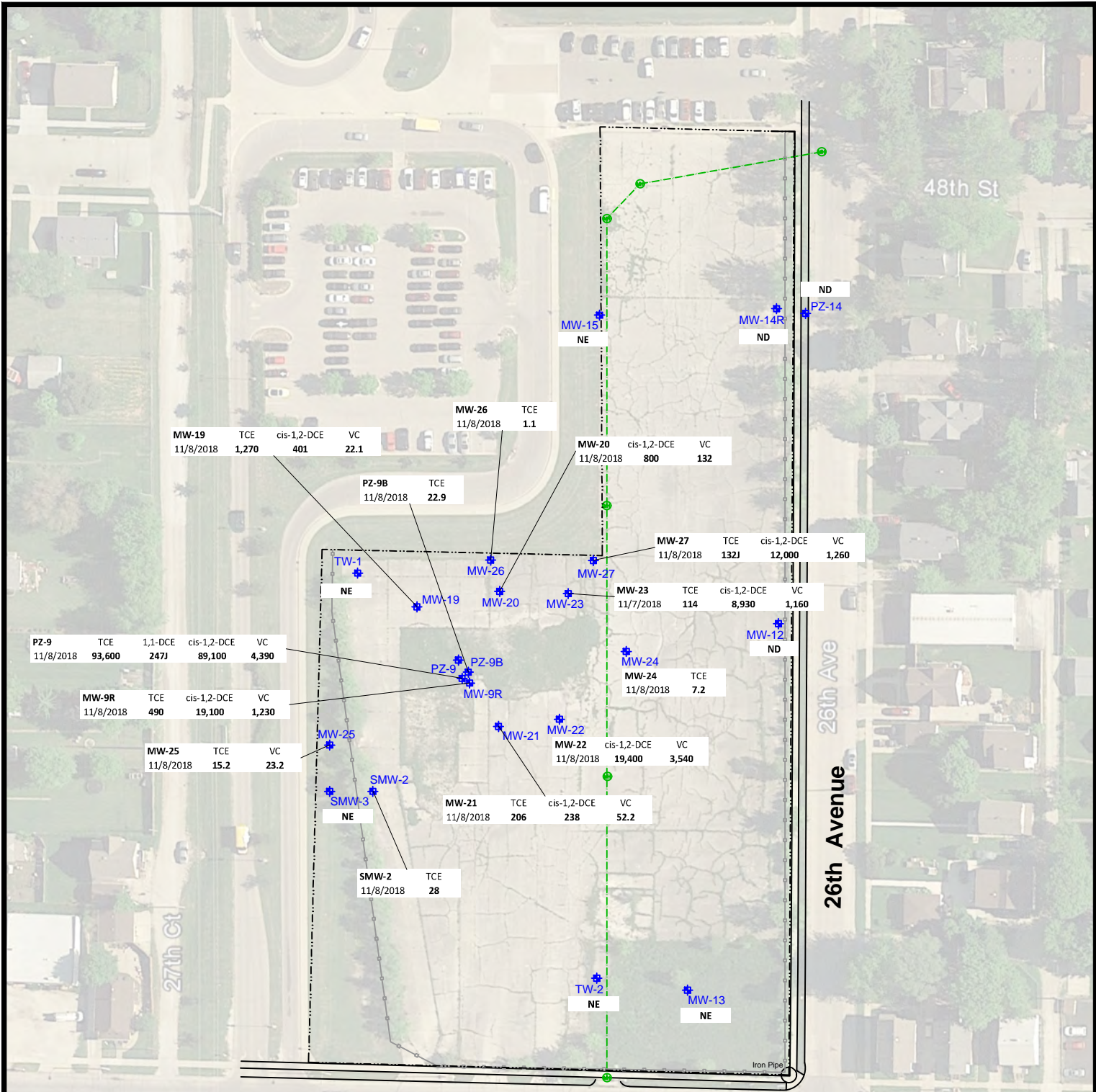
- NOTES:**
1. Base map from Sigma Group.
 2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.



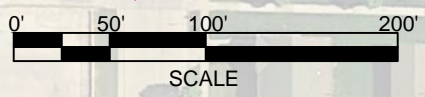
- LEGEND:**
- + MONITORING WELL
 - 614 GROUNDWATER ELEVATION
 - ~ GROUNDWATER CONTOUR
 - GROUNDWATER FLOW
 - STORM SEWER (78")

	AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	Mankowski Site 50th Street and 26th Avenue Kenosha, WI
	WATER TABLE CONTOUR MAP (NOVEMBER 2018)	
	Project Number: 60578356	Drawn By: JSM
	Date: 11/26/2018	Figure No. 3

File: \\usmwwk11901\prod\Datat\Projects\60578356\900_Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED: November 28, 2018 - 3:54 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.
 3. TCE = Trichloroethene
 4. cis-12-DCE = cis-1,2-Dichloroethene
 5. 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 NONE DETECTED
- NE NO EXCEEDANCE



AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080



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

**GROUNDWATER ANALYTICAL SUMMARY
ES EXCEEDANCES
(November 2018)**

Project Number: 60578356 Drawn By: JSM Date: 11/28/2018 Figure No. 4

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

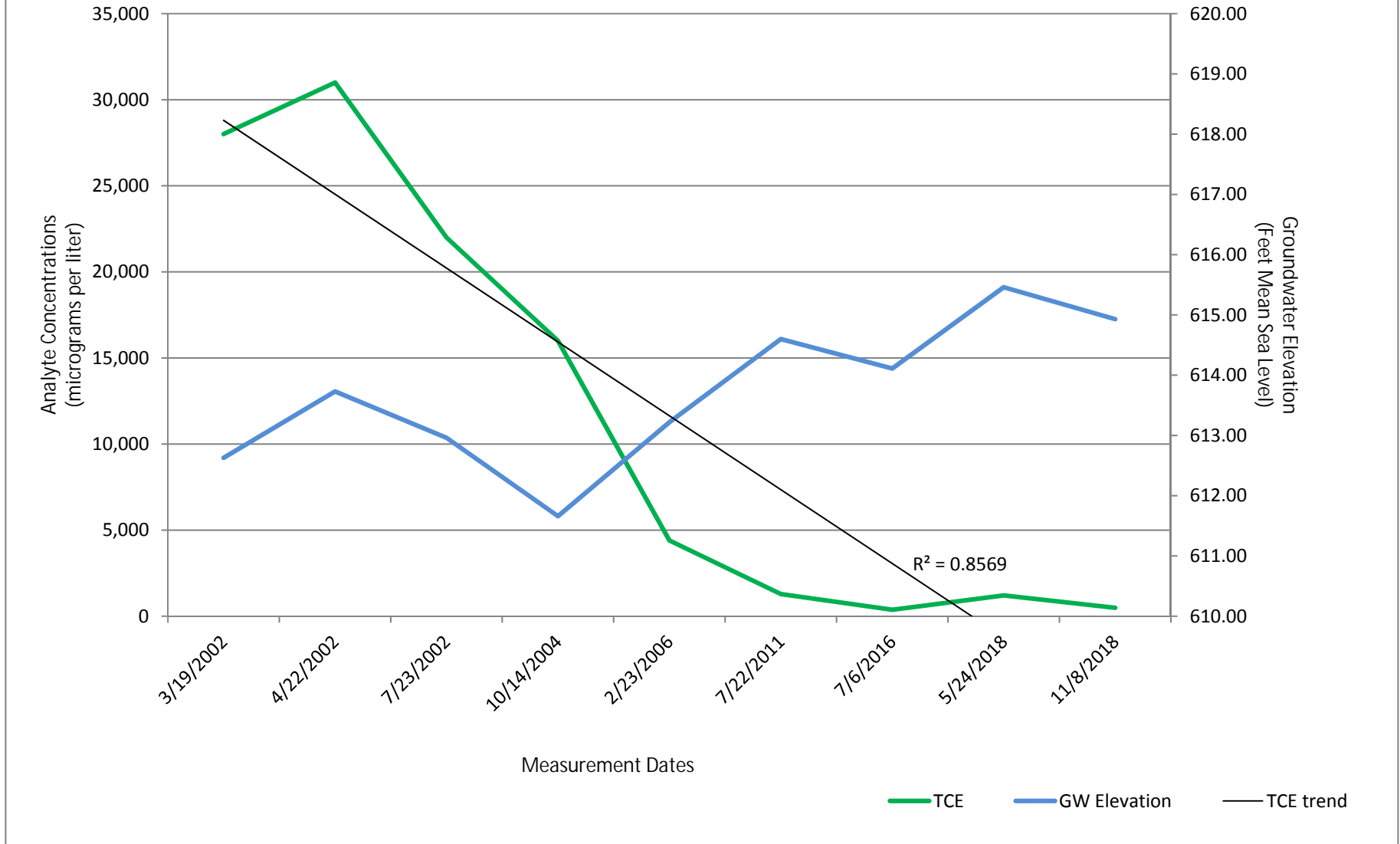


FIGURE 6
PZ-9 TCE Concentrations and
Groundwater Elevations over Time

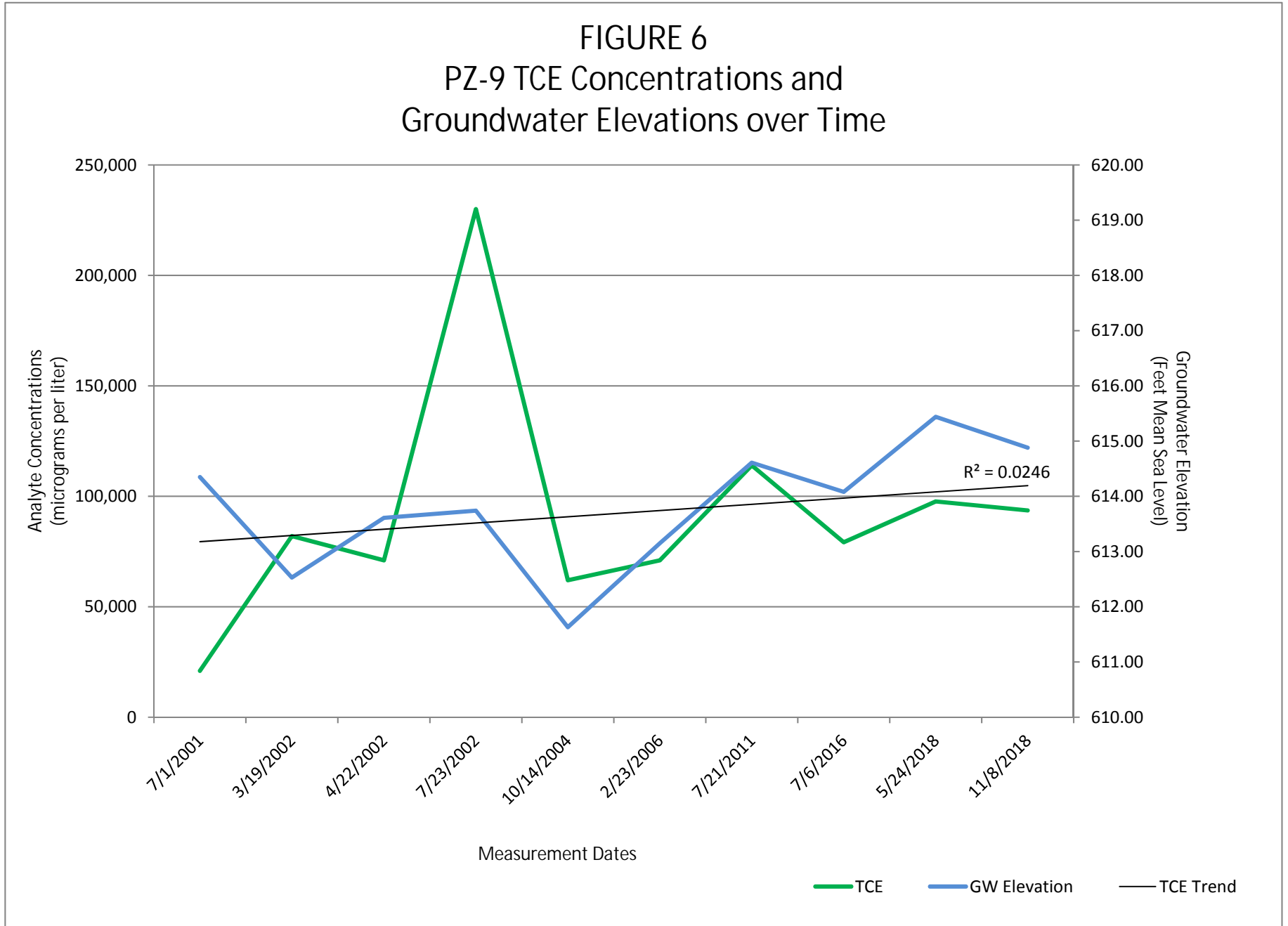


FIGURE 7
MW-19 TCE Concentrations and
Groundwater Elevations over Time

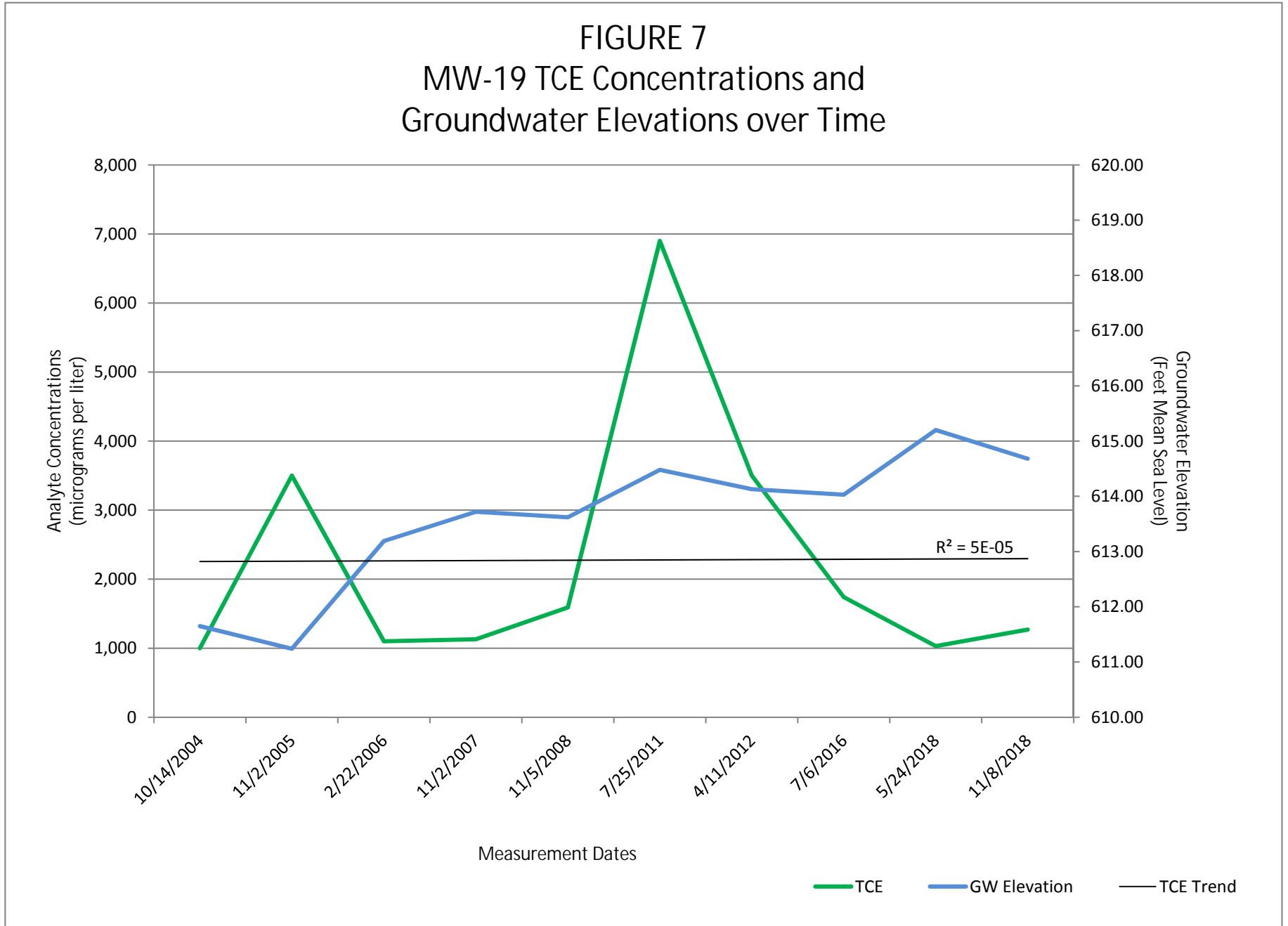
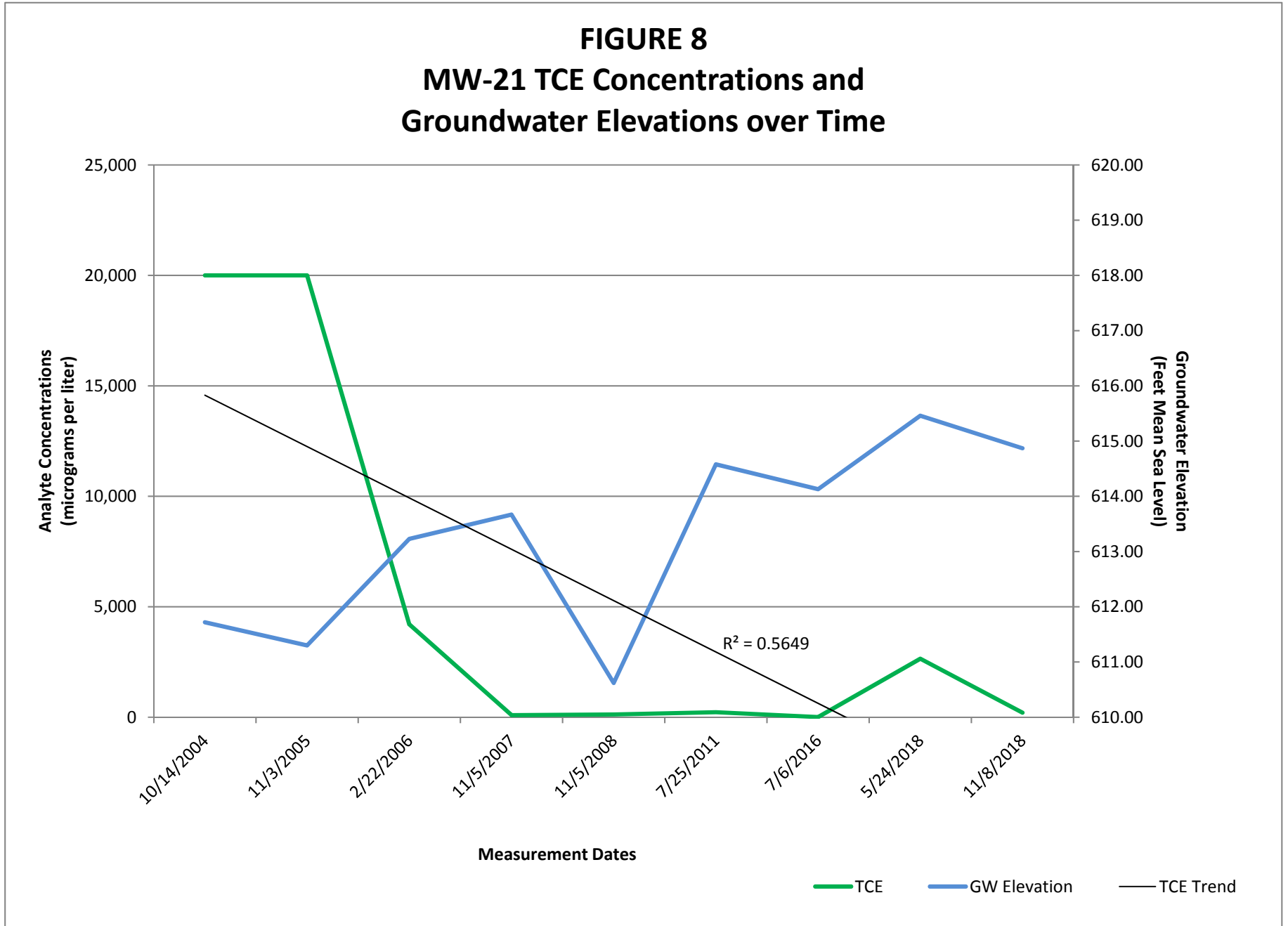


FIGURE 8
MW-21 TCE Concentrations and
Groundwater Elevations over Time



May 17, 2019

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

RE: Project: 60578356 MANKOWSKI
Pace Project No.: 40187293

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 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@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Joel Mackinney, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

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

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SAMPLE SUMMARY

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40187293001	TRIP BLANK	Water	05/06/19 12:00	05/09/19 09:25
40187293002	MW-12	Water	05/06/19 12:30	05/09/19 09:25
40187293003	MW-13	Water	05/06/19 13:20	05/09/19 09:25
40187293004	PZ-14	Water	05/06/19 14:20	05/09/19 09:25
40187293005	MW-14R	Water	05/06/19 14:40	05/09/19 09:25
40187293006	MW-15	Water	05/06/19 15:15	05/09/19 09:25
40187293007	MW-20	Water	05/06/19 15:50	05/09/19 09:25
40187293008	MW-25	Water	05/06/19 16:30	05/09/19 09:25
40187293009	MW-23	Water	05/06/19 16:35	05/09/19 09:25
40187293010	SMW-3	Water	05/06/19 17:15	05/09/19 09:25
40187293011	TW-2	Water	05/07/19 08:30	05/09/19 09:25
40187293012	TW-1	Water	05/07/19 08:40	05/09/19 09:25
40187293013	PZ-9B	Water	05/07/19 09:30	05/09/19 09:25
40187293014	MW-26	Water	05/07/19 10:00	05/09/19 09:25
40187293015	MW-24	Water	05/07/19 10:15	05/09/19 09:25
40187293016	MW-21	Water	05/07/19 10:40	05/09/19 09:25
40187293017	SMW-2	Water	05/07/19 11:10	05/09/19 09:25
40187293018	MW-22	Water	05/07/19 11:30	05/09/19 09:25
40187293019	MW-27	Water	05/07/19 12:00	05/09/19 09:25
40187293020	MW-27D	Water	05/07/19 12:05	05/09/19 09:25
40187293021	MW-9R	Water	05/07/19 12:20	05/09/19 09:25
40187293022	MW-19	Water	05/07/19 12:50	05/09/19 09:25
40187293023	MW-19D	Water	05/07/19 12:55	05/09/19 09:25
40187293024	PZ-9	Water	05/07/19 13:15	05/09/19 09:25
40187293025	MW-16	Water	05/07/19 13:30	05/09/19 09:25
40187293026	MW-18	Water	05/07/19 14:00	05/09/19 09:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40187293001	TRIP BLANK	EPA 8260	LAP	63	PASI-G
40187293002	MW-12	EPA 8260	LAP	63	PASI-G
40187293003	MW-13	EPA 8260	LAP	63	PASI-G
40187293004	PZ-14	EPA 8260	LAP	63	PASI-G
40187293005	MW-14R	EPA 8260	LAP	63	PASI-G
40187293006	MW-15	EPA 8260	LAP	63	PASI-G
40187293007	MW-20	EPA 8260	LAP	63	PASI-G
40187293008	MW-25	EPA 8260	LAP	63	PASI-G
40187293009	MW-23	EPA 8260	LAP	63	PASI-G
40187293010	SMW-3	EPA 8260	LAP	63	PASI-G
40187293011	TW-2	EPA 8260	LAP	63	PASI-G
40187293012	TW-1	EPA 8260	LAP	63	PASI-G
40187293013	PZ-9B	EPA 8260	LAP	63	PASI-G
40187293014	MW-26	EPA 8260	LAP	63	PASI-G
40187293015	MW-24	EPA 8260	LAP	63	PASI-G
40187293016	MW-21	EPA 8260	LAP	63	PASI-G
40187293017	SMW-2	EPA 8260	LAP	63	PASI-G
40187293018	MW-22	EPA 8260	LAP	63	PASI-G
40187293019	MW-27	EPA 8260	LAP	63	PASI-G
40187293020	MW-27D	EPA 8260	LAP	63	PASI-G
40187293021	MW-9R	EPA 8260	HNW	63	PASI-G
40187293022	MW-19	EPA 8260	HNW	63	PASI-G
40187293023	MW-19D	EPA 8260	HNW	63	PASI-G
40187293024	PZ-9	EPA 8260	HNW	63	PASI-G
40187293025	MW-16	EPA 8260	HNW	63	PASI-G
40187293026	MW-18	EPA 8260	HNW	63	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40187293007	MW-20					
EPA 8260	Benzene	0.29J	ug/L	1.0	05/13/19 09:13	
EPA 8260	Chloroethane	33.5	ug/L	5.0	05/13/19 09:13	
EPA 8260	1,1-Dichloroethene	1.3	ug/L	1.0	05/13/19 09:13	
EPA 8260	cis-1,2-Dichloroethene	109	ug/L	1.0	05/13/19 09:13	
EPA 8260	trans-1,2-Dichloroethene	1.5J	ug/L	3.6	05/13/19 09:13	
EPA 8260	Vinyl chloride	57.8	ug/L	1.0	05/13/19 09:13	
40187293008	MW-25					
EPA 8260	cis-1,2-Dichloroethene	45.6	ug/L	1.0	05/10/19 12:34	
EPA 8260	trans-1,2-Dichloroethene	6.7	ug/L	3.6	05/10/19 12:34	
EPA 8260	Trichloroethene	32.7	ug/L	1.0	05/10/19 12:34	
EPA 8260	Vinyl chloride	10.5	ug/L	1.0	05/10/19 12:34	
40187293009	MW-23					
EPA 8260	1,1-Dichloroethene	34.4J	ug/L	100	05/10/19 14:24	
EPA 8260	cis-1,2-Dichloroethene	9070	ug/L	100	05/10/19 14:24	
EPA 8260	Trichloroethene	26.0J	ug/L	100	05/10/19 14:24	
EPA 8260	Vinyl chloride	1330	ug/L	100	05/10/19 14:24	
40187293010	SMW-3					
EPA 8260	Trichloroethene	1.1	ug/L	1.0	05/10/19 11:28	
40187293013	PZ-9B					
EPA 8260	cis-1,2-Dichloroethene	0.60J	ug/L	1.0	05/13/19 08:51	
EPA 8260	Trichloroethene	5.5	ug/L	1.0	05/13/19 08:51	
40187293014	MW-26					
EPA 8260	cis-1,2-Dichloroethene	54.2	ug/L	1.0	05/10/19 12:56	
EPA 8260	trans-1,2-Dichloroethene	1.2J	ug/L	3.6	05/10/19 12:56	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	05/10/19 12:56	
EPA 8260	Vinyl chloride	0.57J	ug/L	1.0	05/10/19 12:56	
40187293015	MW-24					
EPA 8260	cis-1,2-Dichloroethene	0.97J	ug/L	1.0	05/10/19 13:18	
EPA 8260	Trichloroethene	4.1	ug/L	1.0	05/10/19 13:18	
40187293016	MW-21					
EPA 8260	1,1-Dichloroethene	5.0	ug/L	2.0	05/10/19 15:07	
EPA 8260	cis-1,2-Dichloroethene	487	ug/L	2.0	05/10/19 15:07	
EPA 8260	trans-1,2-Dichloroethene	6.5J	ug/L	7.3	05/10/19 15:07	
EPA 8260	Trichloroethene	436	ug/L	10.0	05/13/19 10:41	
EPA 8260	Vinyl chloride	329	ug/L	2.0	05/10/19 15:07	
40187293017	SMW-2					
EPA 8260	cis-1,2-Dichloroethene	22.8	ug/L	1.0	05/10/19 13:40	
EPA 8260	Trichloroethene	16.4	ug/L	1.0	05/10/19 13:40	
40187293018	MW-22					
EPA 8260	1,1-Dichloroethene	83.0J	ug/L	250	05/13/19 09:35	
EPA 8260	cis-1,2-Dichloroethene	23600	ug/L	250	05/13/19 09:35	
EPA 8260	Trichloroethene	64.4J	ug/L	250	05/13/19 09:35	

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40187293018	MW-22					
EPA 8260	Vinyl chloride	6730	ug/L	250	05/13/19 09:35	
40187293019	MW-27					
EPA 8260	1,1-Dichloroethene	46.0J	ug/L	125	05/13/19 09:57	
EPA 8260	cis-1,2-Dichloroethene	11300	ug/L	125	05/13/19 09:57	
EPA 8260	Trichloroethene	121J	ug/L	125	05/13/19 09:57	
EPA 8260	Vinyl chloride	1250	ug/L	125	05/13/19 09:57	
40187293020	MW-27D					
EPA 8260	cis-1,2-Dichloroethene	11400	ug/L	200	05/13/19 10:19	
EPA 8260	Trichloroethene	106J	ug/L	200	05/13/19 10:19	
EPA 8260	Vinyl chloride	1280	ug/L	200	05/13/19 10:19	
40187293021	MW-9R					
EPA 8260	cis-1,2-Dichloroethene	15700	ug/L	250	05/13/19 12:49	
EPA 8260	Trichloroethene	303	ug/L	250	05/13/19 12:49	
EPA 8260	Vinyl chloride	1090	ug/L	250	05/13/19 12:49	
40187293022	MW-19					
EPA 8260	1,1-Dichloroethene	4.0J	ug/L	10.0	05/13/19 13:10	
EPA 8260	cis-1,2-Dichloroethene	413	ug/L	10.0	05/13/19 13:10	
EPA 8260	trans-1,2-Dichloroethene	16.7J	ug/L	36.4	05/13/19 13:10	
EPA 8260	Trichloroethene	999	ug/L	10.0	05/13/19 13:10	
EPA 8260	Vinyl chloride	25.7	ug/L	10.0	05/13/19 13:10	
40187293023	MW-19D					
EPA 8260	1,1-Dichloroethene	4.1J	ug/L	10.0	05/13/19 13:32	
EPA 8260	cis-1,2-Dichloroethene	400	ug/L	10.0	05/13/19 13:32	
EPA 8260	trans-1,2-Dichloroethene	13.8J	ug/L	36.4	05/13/19 13:32	
EPA 8260	Trichloroethene	977	ug/L	10.0	05/13/19 13:32	
EPA 8260	Vinyl chloride	26.6	ug/L	10.0	05/13/19 13:32	
40187293024	PZ-9					
EPA 8260	cis-1,2-Dichloroethene	104000	ug/L	2000	05/10/19 10:11	M1, R1
EPA 8260	Trichloroethene	78600	ug/L	2000	05/10/19 10:11	M1
EPA 8260	Vinyl chloride	5530	ug/L	2000	05/10/19 10:11	M1
40187293025	MW-16					
EPA 8260	cis-1,2-Dichloroethene	9.4	ug/L	1.0	05/13/19 12:06	
EPA 8260	Trichloroethene	9.9	ug/L	1.0	05/13/19 12:06	
EPA 8260	Vinyl chloride	0.48J	ug/L	1.0	05/13/19 12:06	
40187293026	MW-18					
EPA 8260	1,1-Dichloroethene	0.59J	ug/L	1.0	05/13/19 12:28	
EPA 8260	cis-1,2-Dichloroethene	82.7	ug/L	1.0	05/13/19 12:28	
EPA 8260	trans-1,2-Dichloroethene	1.5J	ug/L	3.6	05/13/19 12:28	
EPA 8260	Trichloroethene	41.5	ug/L	1.0	05/13/19 12:28	
EPA 8260	Vinyl chloride	12.2	ug/L	1.0	05/13/19 12:28	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TRIP BLANK **Lab ID: 40187293001** Collected: 05/06/19 12:00 Received: 05/09/19 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		05/10/19 09:16	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 09:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 09:16	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 09:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 09:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 09:16	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:16	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 09:16	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 09:16	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 09:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 09:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 09:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 09:16	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 09:16	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 09:16	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 09:16	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 09:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 09:16	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 09:16	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:16	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 09:16	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 09:16	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 09:16	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 09:16	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 09:16	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 09:16	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 09:16	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 09:16	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 09:16	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 09:16	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 09:16	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 09:16	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 09:16	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 09:16	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 09:16	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 09:16	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 09:16	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 09:16	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 09:16	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 09:16	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 09:16	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 09:16	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 09:16	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 09:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 09:16	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TRIP BLANK **Lab ID: 40187293001** Collected: 05/06/19 12:00 Received: 05/09/19 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		05/10/19 09:16	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 09:16	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 09:16	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 09:16	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 09:16	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 09:16	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 09:16	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 09:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 09:16	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 09:16	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 09:16	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 09:16	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 09:16	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 09:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/10/19 09:16	460-00-4	HS
Dibromofluoromethane (S)	101	%	70-130		1		05/10/19 09:16	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/10/19 09:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-12 **Lab ID: 40187293002** Collected: 05/06/19 12:30 Received: 05/09/19 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		05/10/19 09:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 09:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 09:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 09:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 09:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 09:38	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:38	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 09:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 09:38	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 09:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 09:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 09:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 09:38	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 09:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 09:38	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 09:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 09:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 09:38	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 09:38	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 09:38	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 09:38	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 09:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 09:38	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 09:38	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 09:38	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 09:38	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 09:38	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 09:38	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 09:38	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 09:38	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 09:38	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 09:38	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 09:38	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 09:38	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 09:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 09:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 09:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 09:38	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 09:38	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 09:38	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 09:38	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 09:38	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 09:38	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 09:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 09:38	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-12 **Lab ID: 40187293002** Collected: 05/06/19 12:30 Received: 05/09/19 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		05/10/19 09:38	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 09:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 09:38	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 09:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 09:38	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 09:38	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 09:38	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 09:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 09:38	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 09:38	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 09:38	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 09:38	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 09:38	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 09:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/10/19 09:38	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/10/19 09:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/10/19 09:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-13 **Lab ID: 40187293003** Collected: 05/06/19 13:20 Received: 05/09/19 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		05/10/19 10:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 10:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 10:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 10:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 10:00	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:00	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 10:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 10:00	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 10:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 10:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 10:00	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 10:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 10:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 10:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 10:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 10:00	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 10:00	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:00	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 10:00	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 10:00	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 10:00	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:00	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:00	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:00	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 10:00	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 10:00	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:00	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 10:00	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 10:00	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 10:00	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 10:00	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 10:00	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 10:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 10:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 10:00	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 10:00	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 10:00	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 10:00	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:00	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 10:00	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 10:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:00	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-13 **Lab ID: 40187293003** Collected: 05/06/19 13:20 Received: 05/09/19 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		05/10/19 10:00	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 10:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 10:00	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 10:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 10:00	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 10:00	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 10:00	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 10:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 10:00	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 10:00	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 10:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 10:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:00	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 10:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		05/10/19 10:00	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		05/10/19 10:00	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/10/19 10:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-14 **Lab ID: 40187293004** Collected: 05/06/19 14:20 Received: 05/09/19 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		05/10/19 10:22	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:22	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 10:22	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 10:22	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 10:22	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 10:22	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:22	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 10:22	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 10:22	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:22	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:22	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 10:22	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 10:22	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 10:22	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 10:22	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 10:22	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 10:22	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 10:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 10:22	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 10:22	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:22	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 10:22	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 10:22	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 10:22	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:22	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:22	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:22	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 10:22	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 10:22	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:22	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 10:22	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 10:22	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 10:22	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 10:22	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 10:22	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 10:22	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 10:22	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:22	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 10:22	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 10:22	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 10:22	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 10:22	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:22	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 10:22	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 10:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:22	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-14 **Lab ID: 40187293004** Collected: 05/06/19 14:20 Received: 05/09/19 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		05/10/19 10:22	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 10:22	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 10:22	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 10:22	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 10:22	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 10:22	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 10:22	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 10:22	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 10:22	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 10:22	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 10:22	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 10:22	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:22	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 10:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		05/10/19 10:22	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/10/19 10:22	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		05/10/19 10:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-14R **Lab ID: 40187293005** Collected: 05/06/19 14:40 Received: 05/09/19 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		05/10/19 10:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 10:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 10:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 10:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 10:44	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:44	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 10:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 10:44	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 10:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 10:44	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 10:44	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 10:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 10:44	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 10:44	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 10:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 10:44	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 10:44	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 10:44	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 10:44	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 10:44	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 10:44	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:44	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:44	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 10:44	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 10:44	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 10:44	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 10:44	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 10:44	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 10:44	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 10:44	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 10:44	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 10:44	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 10:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 10:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 10:44	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 10:44	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 10:44	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 10:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 10:44	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 10:44	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 10:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 10:44	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-14R **Lab ID: 40187293005** Collected: 05/06/19 14:40 Received: 05/09/19 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		05/10/19 10:44	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 10:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 10:44	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 10:44	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 10:44	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 10:44	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 10:44	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 10:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 10:44	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 10:44	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 10:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 10:44	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 10:44	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 10:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/10/19 10:44	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		05/10/19 10:44	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/10/19 10:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-15 **Lab ID: 40187293006** Collected: 05/06/19 15:15 Received: 05/09/19 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		05/10/19 11:06	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:06	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 11:06	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 11:06	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 11:06	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 11:06	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:06	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 11:06	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 11:06	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:06	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:06	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 11:06	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 11:06	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 11:06	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 11:06	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 11:06	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 11:06	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 11:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 11:06	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 11:06	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:06	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 11:06	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 11:06	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 11:06	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:06	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:06	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:06	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 11:06	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 11:06	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:06	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 11:06	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 11:06	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 11:06	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 11:06	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 11:06	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 11:06	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 11:06	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:06	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 11:06	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 11:06	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 11:06	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 11:06	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:06	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 11:06	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 11:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:06	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-15 **Lab ID: 40187293006** Collected: 05/06/19 15:15 Received: 05/09/19 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		05/10/19 11:06	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 11:06	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 11:06	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 11:06	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 11:06	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 11:06	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 11:06	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 11:06	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 11:06	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 11:06	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 11:06	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 11:06	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:06	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 11:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/10/19 11:06	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/10/19 11:06	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/10/19 11:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-20 **Lab ID: 40187293007** Collected: 05/06/19 15:50 Received: 05/09/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	0.29J	ug/L	1.0	0.25	1		05/13/19 09:13	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/13/19 09:13	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/13/19 09:13	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/13/19 09:13	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/13/19 09:13	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/13/19 09:13	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 09:13	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/13/19 09:13	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/13/19 09:13	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/13/19 09:13	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 09:13	108-90-7	
Chloroethane	33.5	ug/L	5.0	1.3	1		05/13/19 09:13	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/13/19 09:13	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/13/19 09:13	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/13/19 09:13	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/13/19 09:13	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/13/19 09:13	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/13/19 09:13	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/13/19 09:13	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/13/19 09:13	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 09:13	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/13/19 09:13	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/13/19 09:13	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/13/19 09:13	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 09:13	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/13/19 09:13	107-06-2	
1,1-Dichloroethene	1.3	ug/L	1.0	0.24	1		05/13/19 09:13	75-35-4	
cis-1,2-Dichloroethene	109	ug/L	1.0	0.27	1		05/13/19 09:13	156-59-2	
trans-1,2-Dichloroethene	1.5J	ug/L	3.6	1.1	1		05/13/19 09:13	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/13/19 09:13	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/13/19 09:13	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/13/19 09:13	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/13/19 09:13	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/13/19 09:13	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/13/19 09:13	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/13/19 09:13	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/13/19 09:13	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/13/19 09:13	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/13/19 09:13	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/13/19 09:13	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/13/19 09:13	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/13/19 09:13	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/13/19 09:13	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/13/19 09:13	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/13/19 09:13	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 09:13	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-20 **Lab ID: 40187293007** Collected: 05/06/19 15:50 Received: 05/09/19 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		05/13/19 09:13	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/13/19 09:13	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/13/19 09:13	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/13/19 09:13	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/13/19 09:13	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/13/19 09:13	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/13/19 09:13	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/13/19 09:13	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/13/19 09:13	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/13/19 09:13	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/13/19 09:13	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/13/19 09:13	108-67-8	
Vinyl chloride	57.8	ug/L	1.0	0.17	1		05/13/19 09:13	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/13/19 09:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/13/19 09:13	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/13/19 09:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/13/19 09:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-25 **Lab ID: 40187293008** Collected: 05/06/19 16:30 Received: 05/09/19 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		05/10/19 12:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 12:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 12:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 12:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 12:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 12:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 12:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 12:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 12:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 12:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 12:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 12:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 12:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 12:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 12:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 12:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 12:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 12:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 12:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 12:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:34	75-35-4	
cis-1,2-Dichloroethene	45.6	ug/L	1.0	0.27	1		05/10/19 12:34	156-59-2	
trans-1,2-Dichloroethene	6.7	ug/L	3.6	1.1	1		05/10/19 12:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 12:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 12:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 12:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 12:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 12:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 12:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 12:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 12:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 12:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 12:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 12:34	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 12:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 12:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:34	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-25 **Lab ID: 40187293008** Collected: 05/06/19 16:30 Received: 05/09/19 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		05/10/19 12:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 12:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 12:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 12:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 12:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 12:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 12:34	79-00-5	
Trichloroethene	32.7	ug/L	1.0	0.26	1		05/10/19 12:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 12:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 12:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 12:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 12:34	108-67-8	
Vinyl chloride	10.5	ug/L	1.0	0.17	1		05/10/19 12:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 12:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		05/10/19 12:34	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/10/19 12:34	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/10/19 12:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-23 **Lab ID: 40187293009** Collected: 05/06/19 16:35 Received: 05/09/19 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		05/10/19 14:24	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		05/10/19 14:24	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		05/10/19 14:24	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		05/10/19 14:24	75-27-4	
Bromoform	<397	ug/L	1320	397	100		05/10/19 14:24	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		05/10/19 14:24	74-83-9	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		05/10/19 14:24	104-51-8	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		05/10/19 14:24	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		05/10/19 14:24	98-06-6	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		05/10/19 14:24	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		05/10/19 14:24	108-90-7	
Chloroethane	<134	ug/L	500	134	100		05/10/19 14:24	75-00-3	
Chloroform	<127	ug/L	500	127	100		05/10/19 14:24	67-66-3	
Chloromethane	<219	ug/L	730	219	100		05/10/19 14:24	74-87-3	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		05/10/19 14:24	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		05/10/19 14:24	106-43-4	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		05/10/19 14:24	96-12-8	
Dibromochloromethane	<260	ug/L	867	260	100		05/10/19 14:24	124-48-1	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		05/10/19 14:24	106-93-4	
Dibromomethane	<93.7	ug/L	312	93.7	100		05/10/19 14:24	74-95-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		05/10/19 14:24	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		05/10/19 14:24	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		05/10/19 14:24	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		05/10/19 14:24	75-71-8	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		05/10/19 14:24	75-34-3	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		05/10/19 14:24	107-06-2	
1,1-Dichloroethene	34.4J	ug/L	100	24.5	100		05/10/19 14:24	75-35-4	
cis-1,2-Dichloroethene	9070	ug/L	100	27.1	100		05/10/19 14:24	156-59-2	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		05/10/19 14:24	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		05/10/19 14:24	78-87-5	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		05/10/19 14:24	142-28-9	
2,2-Dichloropropane	<227	ug/L	755	227	100		05/10/19 14:24	594-20-7	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		05/10/19 14:24	563-58-6	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		05/10/19 14:24	10061-01-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		05/10/19 14:24	10061-02-6	
Diisopropyl ether	<189	ug/L	629	189	100		05/10/19 14:24	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		05/10/19 14:24	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		05/10/19 14:24	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		05/10/19 14:24	98-82-8	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		05/10/19 14:24	99-87-6	
Methylene Chloride	<58.1	ug/L	500	58.1	100		05/10/19 14:24	75-09-2	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		05/10/19 14:24	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		05/10/19 14:24	91-20-3	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		05/10/19 14:24	103-65-1	
Styrene	<46.5	ug/L	155	46.5	100		05/10/19 14:24	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		05/10/19 14:24	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-23 **Lab ID: 40187293009** Collected: 05/06/19 16:35 Received: 05/09/19 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		05/10/19 14:24	79-34-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		05/10/19 14:24	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		05/10/19 14:24	108-88-3	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		05/10/19 14:24	87-61-6	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		05/10/19 14:24	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		05/10/19 14:24	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		05/10/19 14:24	79-00-5	
Trichloroethene	26.0J	ug/L	100	25.5	100		05/10/19 14:24	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		05/10/19 14:24	75-69-4	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		05/10/19 14:24	96-18-4	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		05/10/19 14:24	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		05/10/19 14:24	108-67-8	
Vinyl chloride	1330	ug/L	100	17.5	100		05/10/19 14:24	75-01-4	
Xylene (Total)	<150	ug/L	300	150	100		05/10/19 14:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		100		05/10/19 14:24	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		100		05/10/19 14:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		100		05/10/19 14:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: SMW-3 **Lab ID: 40187293010** Collected: 05/06/19 17:15 Received: 05/09/19 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		05/10/19 11:28	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:28	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 11:28	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 11:28	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 11:28	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 11:28	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:28	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 11:28	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 11:28	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:28	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:28	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 11:28	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 11:28	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 11:28	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 11:28	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 11:28	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 11:28	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 11:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 11:28	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 11:28	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:28	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 11:28	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 11:28	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 11:28	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:28	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:28	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:28	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 11:28	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 11:28	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:28	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 11:28	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 11:28	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 11:28	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 11:28	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 11:28	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 11:28	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 11:28	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:28	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 11:28	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 11:28	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 11:28	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 11:28	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:28	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 11:28	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:28	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: SMW-3 **Lab ID: 40187293010** Collected: 05/06/19 17:15 Received: 05/09/19 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		05/10/19 11:28	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 11:28	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 11:28	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 11:28	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 11:28	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 11:28	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 11:28	79-00-5	
Trichloroethene	1.1	ug/L	1.0	0.26	1		05/10/19 11:28	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 11:28	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 11:28	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 11:28	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 11:28	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:28	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 11:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		05/10/19 11:28	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/10/19 11:28	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		05/10/19 11:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TW-2 **Lab ID: 40187293011** Collected: 05/07/19 08:30 Received: 05/09/19 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		05/10/19 11:50	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:50	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 11:50	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 11:50	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 11:50	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 11:50	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:50	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 11:50	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 11:50	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:50	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:50	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 11:50	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 11:50	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 11:50	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 11:50	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 11:50	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 11:50	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 11:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 11:50	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 11:50	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 11:50	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 11:50	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 11:50	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 11:50	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:50	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:50	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 11:50	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 11:50	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 11:50	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 11:50	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 11:50	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 11:50	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 11:50	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 11:50	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 11:50	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 11:50	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 11:50	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:50	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 11:50	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 11:50	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 11:50	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 11:50	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 11:50	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 11:50	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 11:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 11:50	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TW-2 **Lab ID: 40187293011** Collected: 05/07/19 08:30 Received: 05/09/19 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		05/10/19 11:50	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 11:50	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 11:50	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 11:50	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 11:50	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 11:50	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 11:50	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 11:50	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 11:50	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 11:50	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 11:50	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 11:50	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 11:50	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 11:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/10/19 11:50	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		05/10/19 11:50	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		05/10/19 11:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TW-1 **Lab ID: 40187293012** Collected: 05/07/19 08:40 Received: 05/09/19 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		05/10/19 12:12	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 12:12	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 12:12	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 12:12	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 12:12	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:12	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 12:12	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 12:12	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 12:12	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:12	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 12:12	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 12:12	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 12:12	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 12:12	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 12:12	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 12:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 12:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 12:12	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 12:12	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:12	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 12:12	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 12:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 12:12	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:12	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:12	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:12	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		05/10/19 12:12	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 12:12	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:12	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 12:12	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 12:12	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 12:12	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 12:12	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 12:12	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 12:12	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 12:12	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:12	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 12:12	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 12:12	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 12:12	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 12:12	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:12	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 12:12	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 12:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:12	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: TW-1 **Lab ID: 40187293012** Collected: 05/07/19 08:40 Received: 05/09/19 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		05/10/19 12:12	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 12:12	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 12:12	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 12:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 12:12	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 12:12	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 12:12	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		05/10/19 12:12	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 12:12	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 12:12	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 12:12	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 12:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 12:12	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 12:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		05/10/19 12:12	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/10/19 12:12	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/10/19 12:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-9B **Lab ID: 40187293013** Collected: 05/07/19 09:30 Received: 05/09/19 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		05/13/19 08:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/13/19 08:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/13/19 08:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/13/19 08:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/13/19 08:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/13/19 08:51	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 08:51	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/13/19 08:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/13/19 08:51	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/13/19 08:51	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 08:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/13/19 08:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/13/19 08:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/13/19 08:51	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/13/19 08:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/13/19 08:51	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/13/19 08:51	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/13/19 08:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/13/19 08:51	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/13/19 08:51	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 08:51	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/13/19 08:51	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/13/19 08:51	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/13/19 08:51	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 08:51	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/13/19 08:51	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/13/19 08:51	75-35-4	
cis-1,2-Dichloroethene	0.60J	ug/L	1.0	0.27	1		05/13/19 08:51	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/13/19 08:51	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/13/19 08:51	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/13/19 08:51	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/13/19 08:51	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/13/19 08:51	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/13/19 08:51	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/13/19 08:51	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/13/19 08:51	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/13/19 08:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/13/19 08:51	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/13/19 08:51	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/13/19 08:51	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/13/19 08:51	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/13/19 08:51	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/13/19 08:51	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/13/19 08:51	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/13/19 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 08:51	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-9B **Lab ID: 40187293013** Collected: 05/07/19 09:30 Received: 05/09/19 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		05/13/19 08:51	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/13/19 08:51	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/13/19 08:51	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/13/19 08:51	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/13/19 08:51	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/13/19 08:51	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/13/19 08:51	79-00-5	
Trichloroethene	5.5	ug/L	1.0	0.26	1		05/13/19 08:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/13/19 08:51	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/13/19 08:51	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/13/19 08:51	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/13/19 08:51	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/13/19 08:51	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/13/19 08:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		05/13/19 08:51	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		05/13/19 08:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/13/19 08:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-26 **Lab ID: 40187293014** Collected: 05/07/19 10:00 Received: 05/09/19 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		05/10/19 12:56	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 12:56	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 12:56	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 12:56	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 12:56	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:56	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 12:56	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 12:56	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 12:56	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:56	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 12:56	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 12:56	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 12:56	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 12:56	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 12:56	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 12:56	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 12:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 12:56	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 12:56	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 12:56	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 12:56	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 12:56	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 12:56	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:56	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:56	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 12:56	75-35-4	
cis-1,2-Dichloroethene	54.2	ug/L	1.0	0.27	1		05/10/19 12:56	156-59-2	
trans-1,2-Dichloroethene	1.2J	ug/L	3.6	1.1	1		05/10/19 12:56	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 12:56	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 12:56	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 12:56	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 12:56	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 12:56	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 12:56	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 12:56	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 12:56	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:56	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 12:56	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 12:56	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 12:56	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 12:56	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 12:56	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 12:56	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 12:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 12:56	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-26 **Lab ID: 40187293014** Collected: 05/07/19 10:00 Received: 05/09/19 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		05/10/19 12:56	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 12:56	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 12:56	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 12:56	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 12:56	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 12:56	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 12:56	79-00-5	
Trichloroethene	2.1	ug/L	1.0	0.26	1		05/10/19 12:56	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 12:56	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 12:56	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 12:56	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 12:56	108-67-8	
Vinyl chloride	0.57J	ug/L	1.0	0.17	1		05/10/19 12:56	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 12:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/10/19 12:56	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		05/10/19 12:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/10/19 12:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-24 Lab ID: 40187293015 Collected: 05/07/19 10:15 Received: 05/09/19 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		05/10/19 13:18	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 13:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 13:18	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 13:18	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 13:18	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 13:18	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:18	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 13:18	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 13:18	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 13:18	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:18	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 13:18	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 13:18	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 13:18	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 13:18	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 13:18	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 13:18	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 13:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 13:18	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 13:18	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:18	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 13:18	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 13:18	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 13:18	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 13:18	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 13:18	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 13:18	75-35-4	
cis-1,2-Dichloroethene	0.97J	ug/L	1.0	0.27	1		05/10/19 13:18	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 13:18	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 13:18	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 13:18	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 13:18	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 13:18	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 13:18	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 13:18	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 13:18	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 13:18	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 13:18	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 13:18	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 13:18	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 13:18	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 13:18	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 13:18	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 13:18	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 13:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 13:18	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-24 **Lab ID: 40187293015** Collected: 05/07/19 10:15 Received: 05/09/19 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		05/10/19 13:18	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 13:18	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 13:18	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 13:18	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 13:18	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 13:18	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 13:18	79-00-5	
Trichloroethene	4.1	ug/L	1.0	0.26	1		05/10/19 13:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 13:18	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 13:18	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 13:18	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 13:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 13:18	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 13:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		05/10/19 13:18	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		05/10/19 13:18	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		05/10/19 13:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-21 **Lab ID: 40187293016** Collected: 05/07/19 10:40 Received: 05/09/19 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		05/10/19 15:07	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		05/10/19 15:07	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		05/10/19 15:07	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		05/10/19 15:07	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		05/10/19 15:07	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		05/10/19 15:07	74-83-9	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		05/10/19 15:07	104-51-8	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		05/10/19 15:07	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		05/10/19 15:07	98-06-6	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		05/10/19 15:07	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		05/10/19 15:07	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		05/10/19 15:07	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		05/10/19 15:07	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		05/10/19 15:07	74-87-3	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		05/10/19 15:07	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		05/10/19 15:07	106-43-4	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		05/10/19 15:07	96-12-8	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		05/10/19 15:07	124-48-1	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		05/10/19 15:07	106-93-4	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		05/10/19 15:07	74-95-3	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		05/10/19 15:07	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		05/10/19 15:07	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		05/10/19 15:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		05/10/19 15:07	75-71-8	
1,1-Dichloroethane	<0.55	ug/L	2.0	0.55	2		05/10/19 15:07	75-34-3	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		05/10/19 15:07	107-06-2	
1,1-Dichloroethene	5.0	ug/L	2.0	0.49	2		05/10/19 15:07	75-35-4	
cis-1,2-Dichloroethene	487	ug/L	2.0	0.54	2		05/10/19 15:07	156-59-2	
trans-1,2-Dichloroethene	6.5J	ug/L	7.3	2.2	2		05/10/19 15:07	156-60-5	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		05/10/19 15:07	78-87-5	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		05/10/19 15:07	142-28-9	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		05/10/19 15:07	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		05/10/19 15:07	563-58-6	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		05/10/19 15:07	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		05/10/19 15:07	10061-02-6	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		05/10/19 15:07	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		05/10/19 15:07	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		05/10/19 15:07	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		05/10/19 15:07	98-82-8	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		05/10/19 15:07	99-87-6	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		05/10/19 15:07	75-09-2	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		05/10/19 15:07	1634-04-4	
Naphthalene	<2.4	ug/L	10.0	2.4	2		05/10/19 15:07	91-20-3	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		05/10/19 15:07	103-65-1	
Styrene	<0.93	ug/L	3.1	0.93	2		05/10/19 15:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		05/10/19 15:07	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI
Pace Project No.: 40187293

Sample: MW-21 **Lab ID: 40187293016** Collected: 05/07/19 10:40 Received: 05/09/19 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		05/10/19 15:07	79-34-5	
Tetrachloroethene	<0.65	ug/L	2.2	0.65	2		05/10/19 15:07	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		05/10/19 15:07	108-88-3	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		05/10/19 15:07	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		05/10/19 15:07	120-82-1	
1,1,1-Trichloroethane	<0.49	ug/L	2.0	0.49	2		05/10/19 15:07	71-55-6	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		05/10/19 15:07	79-00-5	
Trichloroethene	436	ug/L	10.0	2.6	10		05/13/19 10:41	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		05/10/19 15:07	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		05/10/19 15:07	96-18-4	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		05/10/19 15:07	95-63-6	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		05/10/19 15:07	108-67-8	
Vinyl chloride	329	ug/L	2.0	0.35	2		05/10/19 15:07	75-01-4	
Xylene (Total)	<3.0	ug/L	6.0	3.0	2		05/10/19 15:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2		05/10/19 15:07	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		2		05/10/19 15:07	1868-53-7	
Toluene-d8 (S)	108	%	70-130		2		05/10/19 15:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: SMW-2 **Lab ID: 40187293017** Collected: 05/07/19 11:10 Received: 05/09/19 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		05/10/19 13:40	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/10/19 13:40	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/10/19 13:40	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/10/19 13:40	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/10/19 13:40	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/10/19 13:40	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:40	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/10/19 13:40	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/10/19 13:40	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/10/19 13:40	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:40	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/10/19 13:40	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/10/19 13:40	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/10/19 13:40	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/10/19 13:40	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/10/19 13:40	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/10/19 13:40	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/10/19 13:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/10/19 13:40	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/10/19 13:40	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/10/19 13:40	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/10/19 13:40	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/10/19 13:40	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/10/19 13:40	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 13:40	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/10/19 13:40	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/10/19 13:40	75-35-4	
cis-1,2-Dichloroethene	22.8	ug/L	1.0	0.27	1		05/10/19 13:40	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/10/19 13:40	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/10/19 13:40	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/10/19 13:40	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/10/19 13:40	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/10/19 13:40	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/10/19 13:40	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/10/19 13:40	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/10/19 13:40	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/10/19 13:40	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/10/19 13:40	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/10/19 13:40	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/10/19 13:40	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/10/19 13:40	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/10/19 13:40	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/10/19 13:40	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/10/19 13:40	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/10/19 13:40	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/10/19 13:40	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: SMW-2 **Lab ID: 40187293017** Collected: 05/07/19 11:10 Received: 05/09/19 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		05/10/19 13:40	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/10/19 13:40	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/10/19 13:40	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/10/19 13:40	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/10/19 13:40	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/10/19 13:40	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/10/19 13:40	79-00-5	
Trichloroethene	16.4	ug/L	1.0	0.26	1		05/10/19 13:40	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/10/19 13:40	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/10/19 13:40	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/10/19 13:40	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/10/19 13:40	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		05/10/19 13:40	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/10/19 13:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		05/10/19 13:40	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		05/10/19 13:40	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/10/19 13:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-22 **Lab ID: 40187293018** Collected: 05/07/19 11:30 Received: 05/09/19 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		05/13/19 09:35	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		05/13/19 09:35	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		05/13/19 09:35	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		05/13/19 09:35	75-27-4	
Bromoform	<993	ug/L	3310	993	250		05/13/19 09:35	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		05/13/19 09:35	74-83-9	
n-Butylbenzene	<177	ug/L	590	177	250		05/13/19 09:35	104-51-8	
sec-Butylbenzene	<212	ug/L	1250	212	250		05/13/19 09:35	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		05/13/19 09:35	98-06-6	
Carbon tetrachloride	<41.5	ug/L	250	41.5	250		05/13/19 09:35	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		05/13/19 09:35	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		05/13/19 09:35	75-00-3	
Chloroform	<318	ug/L	1250	318	250		05/13/19 09:35	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		05/13/19 09:35	74-87-3	
2-Chlorotoluene	<232	ug/L	1250	232	250		05/13/19 09:35	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		05/13/19 09:35	106-43-4	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		05/13/19 09:35	96-12-8	
Dibromochloromethane	<650	ug/L	2170	650	250		05/13/19 09:35	124-48-1	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		05/13/19 09:35	106-93-4	
Dibromomethane	<234	ug/L	781	234	250		05/13/19 09:35	74-95-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		05/13/19 09:35	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		05/13/19 09:35	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		05/13/19 09:35	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		05/13/19 09:35	75-71-8	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		05/13/19 09:35	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		05/13/19 09:35	107-06-2	
1,1-Dichloroethene	83.0J	ug/L	250	61.2	250		05/13/19 09:35	75-35-4	
cis-1,2-Dichloroethene	23600	ug/L	250	67.8	250		05/13/19 09:35	156-59-2	
trans-1,2-Dichloroethene	<273	ug/L	909	273	250		05/13/19 09:35	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		05/13/19 09:35	78-87-5	
1,3-Dichloropropane	<206	ug/L	688	206	250		05/13/19 09:35	142-28-9	
2,2-Dichloropropane	<566	ug/L	1890	566	250		05/13/19 09:35	594-20-7	
1,1-Dichloropropene	<135	ug/L	450	135	250		05/13/19 09:35	563-58-6	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		05/13/19 09:35	10061-01-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		05/13/19 09:35	10061-02-6	
Diisopropyl ether	<472	ug/L	1570	472	250		05/13/19 09:35	108-20-3	
Ethylbenzene	<54.5	ug/L	250	54.5	250		05/13/19 09:35	100-41-4	
Hexachloro-1,3-butadiene	<296	ug/L	1250	296	250		05/13/19 09:35	87-68-3	
Isopropylbenzene (Cumene)	<98.2	ug/L	1250	98.2	250		05/13/19 09:35	98-82-8	
p-Isopropyltoluene	<200	ug/L	667	200	250		05/13/19 09:35	99-87-6	
Methylene Chloride	<145	ug/L	1250	145	250		05/13/19 09:35	75-09-2	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		05/13/19 09:35	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		05/13/19 09:35	91-20-3	
n-Propylbenzene	<203	ug/L	1250	203	250		05/13/19 09:35	103-65-1	
Styrene	<116	ug/L	388	116	250		05/13/19 09:35	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		05/13/19 09:35	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-22 **Lab ID: 40187293018** Collected: 05/07/19 11:30 Received: 05/09/19 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		05/13/19 09:35	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		05/13/19 09:35	127-18-4	
Toluene	<43.0	ug/L	1250	43.0	250		05/13/19 09:35	108-88-3	
1,2,3-Trichlorobenzene	<156	ug/L	1250	156	250		05/13/19 09:35	87-61-6	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		05/13/19 09:35	120-82-1	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		05/13/19 09:35	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		05/13/19 09:35	79-00-5	
Trichloroethene	64.4J	ug/L	250	63.8	250		05/13/19 09:35	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		05/13/19 09:35	75-69-4	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		05/13/19 09:35	96-18-4	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		05/13/19 09:35	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		05/13/19 09:35	108-67-8	
Vinyl chloride	6730	ug/L	250	43.7	250		05/13/19 09:35	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		05/13/19 09:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		250		05/13/19 09:35	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		250		05/13/19 09:35	1868-53-7	
Toluene-d8 (S)	102	%	70-130		250		05/13/19 09:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-27 **Lab ID: 40187293019** Collected: 05/07/19 12:00 Received: 05/09/19 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		05/13/19 09:57	71-43-2	
Bromobenzene	<30.1	ug/L	125	30.1	125		05/13/19 09:57	108-86-1	
Bromochloromethane	<45.3	ug/L	625	45.3	125		05/13/19 09:57	74-97-5	
Bromodichloromethane	<45.5	ug/L	152	45.5	125		05/13/19 09:57	75-27-4	
Bromoform	<496	ug/L	1650	496	125		05/13/19 09:57	75-25-2	
Bromomethane	<121	ug/L	625	121	125		05/13/19 09:57	74-83-9	
n-Butylbenzene	<88.5	ug/L	295	88.5	125		05/13/19 09:57	104-51-8	
sec-Butylbenzene	<106	ug/L	625	106	125		05/13/19 09:57	135-98-8	
tert-Butylbenzene	<38.0	ug/L	127	38.0	125		05/13/19 09:57	98-06-6	
Carbon tetrachloride	<20.7	ug/L	125	20.7	125		05/13/19 09:57	56-23-5	
Chlorobenzene	<88.9	ug/L	296	88.9	125		05/13/19 09:57	108-90-7	
Chloroethane	<168	ug/L	625	168	125		05/13/19 09:57	75-00-3	
Chloroform	<159	ug/L	625	159	125		05/13/19 09:57	67-66-3	
Chloromethane	<274	ug/L	912	274	125		05/13/19 09:57	74-87-3	
2-Chlorotoluene	<116	ug/L	625	116	125		05/13/19 09:57	95-49-8	
4-Chlorotoluene	<94.5	ug/L	315	94.5	125		05/13/19 09:57	106-43-4	
1,2-Dibromo-3-chloropropane	<220	ug/L	735	220	125		05/13/19 09:57	96-12-8	
Dibromochloromethane	<325	ug/L	1080	325	125		05/13/19 09:57	124-48-1	
1,2-Dibromoethane (EDB)	<104	ug/L	346	104	125		05/13/19 09:57	106-93-4	
Dibromomethane	<117	ug/L	390	117	125		05/13/19 09:57	74-95-3	
1,2-Dichlorobenzene	<88.2	ug/L	294	88.2	125		05/13/19 09:57	95-50-1	
1,3-Dichlorobenzene	<78.5	ug/L	262	78.5	125		05/13/19 09:57	541-73-1	
1,4-Dichlorobenzene	<118	ug/L	393	118	125		05/13/19 09:57	106-46-7	
Dichlorodifluoromethane	<62.4	ug/L	625	62.4	125		05/13/19 09:57	75-71-8	
1,1-Dichloroethane	<34.1	ug/L	125	34.1	125		05/13/19 09:57	75-34-3	
1,2-Dichloroethane	<35.0	ug/L	125	35.0	125		05/13/19 09:57	107-06-2	
1,1-Dichloroethene	46.0J	ug/L	125	30.6	125		05/13/19 09:57	75-35-4	
cis-1,2-Dichloroethene	11300	ug/L	125	33.9	125		05/13/19 09:57	156-59-2	
trans-1,2-Dichloroethene	<136	ug/L	454	136	125		05/13/19 09:57	156-60-5	
1,2-Dichloropropane	<35.3	ug/L	125	35.3	125		05/13/19 09:57	78-87-5	
1,3-Dichloropropane	<103	ug/L	344	103	125		05/13/19 09:57	142-28-9	
2,2-Dichloropropane	<283	ug/L	944	283	125		05/13/19 09:57	594-20-7	
1,1-Dichloropropene	<67.6	ug/L	225	67.6	125		05/13/19 09:57	563-58-6	
cis-1,3-Dichloropropene	<454	ug/L	1510	454	125		05/13/19 09:57	10061-01-5	
trans-1,3-Dichloropropene	<546	ug/L	1820	546	125		05/13/19 09:57	10061-02-6	
Diisopropyl ether	<236	ug/L	787	236	125		05/13/19 09:57	108-20-3	
Ethylbenzene	<27.3	ug/L	125	27.3	125		05/13/19 09:57	100-41-4	
Hexachloro-1,3-butadiene	<148	ug/L	625	148	125		05/13/19 09:57	87-68-3	
Isopropylbenzene (Cumene)	<49.1	ug/L	625	49.1	125		05/13/19 09:57	98-82-8	
p-Isopropyltoluene	<100	ug/L	333	100	125		05/13/19 09:57	99-87-6	
Methylene Chloride	<72.6	ug/L	625	72.6	125		05/13/19 09:57	75-09-2	
Methyl-tert-butyl ether	<156	ug/L	519	156	125		05/13/19 09:57	1634-04-4	
Naphthalene	<147	ug/L	625	147	125		05/13/19 09:57	91-20-3	
n-Propylbenzene	<101	ug/L	625	101	125		05/13/19 09:57	103-65-1	
Styrene	<58.2	ug/L	194	58.2	125		05/13/19 09:57	100-42-5	
1,1,1,2-Tetrachloroethane	<33.6	ug/L	125	33.6	125		05/13/19 09:57	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-27 **Lab ID: 40187293019** Collected: 05/07/19 12:00 Received: 05/09/19 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		05/13/19 09:57	79-34-5	
Tetrachloroethene	<40.8	ug/L	136	40.8	125		05/13/19 09:57	127-18-4	
Toluene	<21.5	ug/L	625	21.5	125		05/13/19 09:57	108-88-3	
1,2,3-Trichlorobenzene	<78.2	ug/L	625	78.2	125		05/13/19 09:57	87-61-6	
1,2,4-Trichlorobenzene	<119	ug/L	625	119	125		05/13/19 09:57	120-82-1	
1,1,1-Trichloroethane	<30.6	ug/L	125	30.6	125		05/13/19 09:57	71-55-6	
1,1,2-Trichloroethane	<69.0	ug/L	625	69.0	125		05/13/19 09:57	79-00-5	
Trichloroethene	121J	ug/L	125	31.9	125		05/13/19 09:57	79-01-6	
Trichlorofluoromethane	<26.9	ug/L	125	26.9	125		05/13/19 09:57	75-69-4	
1,2,3-Trichloropropane	<73.8	ug/L	625	73.8	125		05/13/19 09:57	96-18-4	
1,2,4-Trimethylbenzene	<105	ug/L	350	105	125		05/13/19 09:57	95-63-6	
1,3,5-Trimethylbenzene	<109	ug/L	364	109	125		05/13/19 09:57	108-67-8	
Vinyl chloride	1250	ug/L	125	21.8	125		05/13/19 09:57	75-01-4	
Xylene (Total)	<188	ug/L	375	188	125		05/13/19 09:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		125		05/13/19 09:57	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		125		05/13/19 09:57	1868-53-7	
Toluene-d8 (S)	103	%	70-130		125		05/13/19 09:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-27D **Lab ID: 40187293020** Collected: 05/07/19 12:05 Received: 05/09/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<49.3	ug/L	200	49.3	200		05/13/19 10:19	71-43-2	
Bromobenzene	<48.2	ug/L	200	48.2	200		05/13/19 10:19	108-86-1	
Bromochloromethane	<72.4	ug/L	1000	72.4	200		05/13/19 10:19	74-97-5	
Bromodichloromethane	<72.7	ug/L	242	72.7	200		05/13/19 10:19	75-27-4	
Bromoform	<794	ug/L	2650	794	200		05/13/19 10:19	75-25-2	
Bromomethane	<194	ug/L	1000	194	200		05/13/19 10:19	74-83-9	
n-Butylbenzene	<142	ug/L	472	142	200		05/13/19 10:19	104-51-8	
sec-Butylbenzene	<170	ug/L	1000	170	200		05/13/19 10:19	135-98-8	
tert-Butylbenzene	<60.8	ug/L	203	60.8	200		05/13/19 10:19	98-06-6	
Carbon tetrachloride	<33.2	ug/L	200	33.2	200		05/13/19 10:19	56-23-5	
Chlorobenzene	<142	ug/L	474	142	200		05/13/19 10:19	108-90-7	
Chloroethane	<268	ug/L	1000	268	200		05/13/19 10:19	75-00-3	
Chloroform	<255	ug/L	1000	255	200		05/13/19 10:19	67-66-3	
Chloromethane	<438	ug/L	1460	438	200		05/13/19 10:19	74-87-3	
2-Chlorotoluene	<185	ug/L	1000	185	200		05/13/19 10:19	95-49-8	
4-Chlorotoluene	<151	ug/L	504	151	200		05/13/19 10:19	106-43-4	
1,2-Dibromo-3-chloropropane	<353	ug/L	1180	353	200		05/13/19 10:19	96-12-8	
Dibromochloromethane	<520	ug/L	1730	520	200		05/13/19 10:19	124-48-1	
1,2-Dibromoethane (EDB)	<166	ug/L	553	166	200		05/13/19 10:19	106-93-4	
Dibromomethane	<187	ug/L	625	187	200		05/13/19 10:19	74-95-3	
1,2-Dichlorobenzene	<141	ug/L	470	141	200		05/13/19 10:19	95-50-1	
1,3-Dichlorobenzene	<126	ug/L	419	126	200		05/13/19 10:19	541-73-1	
1,4-Dichlorobenzene	<189	ug/L	629	189	200		05/13/19 10:19	106-46-7	
Dichlorodifluoromethane	<99.9	ug/L	1000	99.9	200		05/13/19 10:19	75-71-8	
1,1-Dichloroethane	<54.5	ug/L	200	54.5	200		05/13/19 10:19	75-34-3	
1,2-Dichloroethane	<56.0	ug/L	200	56.0	200		05/13/19 10:19	107-06-2	
1,1-Dichloroethene	<49.0	ug/L	200	49.0	200		05/13/19 10:19	75-35-4	
cis-1,2-Dichloroethene	11400	ug/L	200	54.2	200		05/13/19 10:19	156-59-2	
trans-1,2-Dichloroethene	<218	ug/L	727	218	200		05/13/19 10:19	156-60-5	
1,2-Dichloropropane	<56.6	ug/L	200	56.6	200		05/13/19 10:19	78-87-5	
1,3-Dichloropropane	<165	ug/L	551	165	200		05/13/19 10:19	142-28-9	
2,2-Dichloropropane	<453	ug/L	1510	453	200		05/13/19 10:19	594-20-7	
1,1-Dichloropropene	<108	ug/L	360	108	200		05/13/19 10:19	563-58-6	
cis-1,3-Dichloropropene	<726	ug/L	2420	726	200		05/13/19 10:19	10061-01-5	
trans-1,3-Dichloropropene	<874	ug/L	2910	874	200		05/13/19 10:19	10061-02-6	
Diisopropyl ether	<378	ug/L	1260	378	200		05/13/19 10:19	108-20-3	
Ethylbenzene	<43.6	ug/L	200	43.6	200		05/13/19 10:19	100-41-4	
Hexachloro-1,3-butadiene	<236	ug/L	1000	236	200		05/13/19 10:19	87-68-3	
Isopropylbenzene (Cumene)	<78.6	ug/L	1000	78.6	200		05/13/19 10:19	98-82-8	
p-Isopropyltoluene	<160	ug/L	533	160	200		05/13/19 10:19	99-87-6	
Methylene Chloride	<116	ug/L	1000	116	200		05/13/19 10:19	75-09-2	
Methyl-tert-butyl ether	<249	ug/L	831	249	200		05/13/19 10:19	1634-04-4	
Naphthalene	<235	ug/L	1000	235	200		05/13/19 10:19	91-20-3	
n-Propylbenzene	<162	ug/L	1000	162	200		05/13/19 10:19	103-65-1	
Styrene	<93.1	ug/L	310	93.1	200		05/13/19 10:19	100-42-5	
1,1,1,2-Tetrachloroethane	<53.8	ug/L	200	53.8	200		05/13/19 10:19	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-27D **Lab ID: 40187293020** Collected: 05/07/19 12:05 Received: 05/09/19 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	<55.1	ug/L	200	55.1	200		05/13/19 10:19	79-34-5	
Tetrachloroethene	<65.3	ug/L	218	65.3	200		05/13/19 10:19	127-18-4	
Toluene	<34.4	ug/L	1000	34.4	200		05/13/19 10:19	108-88-3	
1,2,3-Trichlorobenzene	<125	ug/L	1000	125	200		05/13/19 10:19	87-61-6	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		05/13/19 10:19	120-82-1	
1,1,1-Trichloroethane	<49.0	ug/L	200	49.0	200		05/13/19 10:19	71-55-6	
1,1,2-Trichloroethane	<110	ug/L	1000	110	200		05/13/19 10:19	79-00-5	
Trichloroethene	106J	ug/L	200	51.0	200		05/13/19 10:19	79-01-6	
Trichlorofluoromethane	<43.0	ug/L	200	43.0	200		05/13/19 10:19	75-69-4	
1,2,3-Trichloropropane	<118	ug/L	1000	118	200		05/13/19 10:19	96-18-4	
1,2,4-Trimethylbenzene	<168	ug/L	560	168	200		05/13/19 10:19	95-63-6	
1,3,5-Trimethylbenzene	<175	ug/L	582	175	200		05/13/19 10:19	108-67-8	
Vinyl chloride	1280	ug/L	200	34.9	200		05/13/19 10:19	75-01-4	
Xylene (Total)	<300	ug/L	600	300	200		05/13/19 10:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		200		05/13/19 10:19	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		200		05/13/19 10:19	1868-53-7	
Toluene-d8 (S)	103	%	70-130		200		05/13/19 10:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-9R **Lab ID: 40187293021** Collected: 05/07/19 12:20 Received: 05/09/19 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		05/13/19 12:49	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		05/13/19 12:49	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		05/13/19 12:49	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		05/13/19 12:49	75-27-4	
Bromoform	<993	ug/L	3310	993	250		05/13/19 12:49	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		05/13/19 12:49	74-83-9	
n-Butylbenzene	<177	ug/L	590	177	250		05/13/19 12:49	104-51-8	
sec-Butylbenzene	<212	ug/L	1250	212	250		05/13/19 12:49	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		05/13/19 12:49	98-06-6	
Carbon tetrachloride	<41.5	ug/L	250	41.5	250		05/13/19 12:49	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		05/13/19 12:49	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		05/13/19 12:49	75-00-3	
Chloroform	<318	ug/L	1250	318	250		05/13/19 12:49	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		05/13/19 12:49	74-87-3	
2-Chlorotoluene	<232	ug/L	1250	232	250		05/13/19 12:49	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		05/13/19 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		05/13/19 12:49	96-12-8	
Dibromochloromethane	<650	ug/L	2170	650	250		05/13/19 12:49	124-48-1	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		05/13/19 12:49	106-93-4	
Dibromomethane	<234	ug/L	781	234	250		05/13/19 12:49	74-95-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		05/13/19 12:49	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		05/13/19 12:49	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		05/13/19 12:49	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		05/13/19 12:49	75-71-8	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		05/13/19 12:49	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		05/13/19 12:49	107-06-2	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		05/13/19 12:49	75-35-4	
cis-1,2-Dichloroethene	15700	ug/L	250	67.8	250		05/13/19 12:49	156-59-2	
trans-1,2-Dichloroethene	<273	ug/L	909	273	250		05/13/19 12:49	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		05/13/19 12:49	78-87-5	
1,3-Dichloropropane	<206	ug/L	688	206	250		05/13/19 12:49	142-28-9	
2,2-Dichloropropane	<566	ug/L	1890	566	250		05/13/19 12:49	594-20-7	
1,1-Dichloropropene	<135	ug/L	450	135	250		05/13/19 12:49	563-58-6	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		05/13/19 12:49	10061-01-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		05/13/19 12:49	10061-02-6	
Diisopropyl ether	<472	ug/L	1570	472	250		05/13/19 12:49	108-20-3	
Ethylbenzene	<54.5	ug/L	250	54.5	250		05/13/19 12:49	100-41-4	
Hexachloro-1,3-butadiene	<296	ug/L	1250	296	250		05/13/19 12:49	87-68-3	
Isopropylbenzene (Cumene)	<98.2	ug/L	1250	98.2	250		05/13/19 12:49	98-82-8	
p-Isopropyltoluene	<200	ug/L	667	200	250		05/13/19 12:49	99-87-6	
Methylene Chloride	<145	ug/L	1250	145	250		05/13/19 12:49	75-09-2	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		05/13/19 12:49	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		05/13/19 12:49	91-20-3	
n-Propylbenzene	<203	ug/L	1250	203	250		05/13/19 12:49	103-65-1	
Styrene	<116	ug/L	388	116	250		05/13/19 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		05/13/19 12:49	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-9R **Lab ID: 40187293021** Collected: 05/07/19 12:20 Received: 05/09/19 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		05/13/19 12:49	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		05/13/19 12:49	127-18-4	
Toluene	<43.0	ug/L	1250	43.0	250		05/13/19 12:49	108-88-3	
1,2,3-Trichlorobenzene	<156	ug/L	1250	156	250		05/13/19 12:49	87-61-6	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		05/13/19 12:49	120-82-1	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		05/13/19 12:49	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		05/13/19 12:49	79-00-5	
Trichloroethene	303	ug/L	250	63.8	250		05/13/19 12:49	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		05/13/19 12:49	75-69-4	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		05/13/19 12:49	96-18-4	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		05/13/19 12:49	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		05/13/19 12:49	108-67-8	
Vinyl chloride	1090	ug/L	250	43.7	250		05/13/19 12:49	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		05/13/19 12:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		250		05/13/19 12:49	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		250		05/13/19 12:49	1868-53-7	
Toluene-d8 (S)	97	%	70-130		250		05/13/19 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-19 **Lab ID: 40187293022** Collected: 05/07/19 12:50 Received: 05/09/19 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		05/13/19 13:10	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		05/13/19 13:10	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		05/13/19 13:10	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		05/13/19 13:10	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		05/13/19 13:10	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		05/13/19 13:10	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		05/13/19 13:10	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		05/13/19 13:10	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		05/13/19 13:10	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		05/13/19 13:10	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		05/13/19 13:10	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		05/13/19 13:10	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		05/13/19 13:10	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		05/13/19 13:10	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		05/13/19 13:10	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		05/13/19 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		05/13/19 13:10	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		05/13/19 13:10	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		05/13/19 13:10	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		05/13/19 13:10	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		05/13/19 13:10	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		05/13/19 13:10	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		05/13/19 13:10	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		05/13/19 13:10	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		05/13/19 13:10	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		05/13/19 13:10	107-06-2	
1,1-Dichloroethene	4.0J	ug/L	10.0	2.4	10		05/13/19 13:10	75-35-4	
cis-1,2-Dichloroethene	413	ug/L	10.0	2.7	10		05/13/19 13:10	156-59-2	
trans-1,2-Dichloroethene	16.7J	ug/L	36.4	10.9	10		05/13/19 13:10	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		05/13/19 13:10	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		05/13/19 13:10	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		05/13/19 13:10	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		05/13/19 13:10	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		05/13/19 13:10	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		05/13/19 13:10	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		05/13/19 13:10	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		05/13/19 13:10	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		05/13/19 13:10	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		05/13/19 13:10	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		05/13/19 13:10	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		05/13/19 13:10	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		05/13/19 13:10	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		05/13/19 13:10	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		05/13/19 13:10	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		05/13/19 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		05/13/19 13:10	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-19 **Lab ID: 40187293022** Collected: 05/07/19 12:50 Received: 05/09/19 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		05/13/19 13:10	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		05/13/19 13:10	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		05/13/19 13:10	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		05/13/19 13:10	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		05/13/19 13:10	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		05/13/19 13:10	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		05/13/19 13:10	79-00-5	
Trichloroethene	999	ug/L	10.0	2.6	10		05/13/19 13:10	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		05/13/19 13:10	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		05/13/19 13:10	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		05/13/19 13:10	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		05/13/19 13:10	108-67-8	
Vinyl chloride	25.7	ug/L	10.0	1.7	10		05/13/19 13:10	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		05/13/19 13:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		10		05/13/19 13:10	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		10		05/13/19 13:10	1868-53-7	
Toluene-d8 (S)	97	%	70-130		10		05/13/19 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-19D **Lab ID: 40187293023** Collected: 05/07/19 12:55 Received: 05/09/19 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		05/13/19 13:32	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		05/13/19 13:32	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		05/13/19 13:32	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		05/13/19 13:32	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		05/13/19 13:32	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		05/13/19 13:32	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		05/13/19 13:32	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		05/13/19 13:32	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		05/13/19 13:32	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		05/13/19 13:32	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		05/13/19 13:32	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		05/13/19 13:32	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		05/13/19 13:32	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		05/13/19 13:32	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		05/13/19 13:32	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		05/13/19 13:32	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		05/13/19 13:32	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		05/13/19 13:32	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		05/13/19 13:32	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		05/13/19 13:32	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		05/13/19 13:32	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		05/13/19 13:32	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		05/13/19 13:32	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		05/13/19 13:32	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		05/13/19 13:32	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		05/13/19 13:32	107-06-2	
1,1-Dichloroethene	4.1J	ug/L	10.0	2.4	10		05/13/19 13:32	75-35-4	
cis-1,2-Dichloroethene	400	ug/L	10.0	2.7	10		05/13/19 13:32	156-59-2	
trans-1,2-Dichloroethene	13.8J	ug/L	36.4	10.9	10		05/13/19 13:32	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		05/13/19 13:32	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		05/13/19 13:32	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		05/13/19 13:32	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		05/13/19 13:32	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		05/13/19 13:32	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		05/13/19 13:32	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		05/13/19 13:32	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		05/13/19 13:32	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		05/13/19 13:32	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		05/13/19 13:32	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		05/13/19 13:32	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		05/13/19 13:32	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		05/13/19 13:32	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		05/13/19 13:32	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		05/13/19 13:32	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		05/13/19 13:32	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		05/13/19 13:32	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-19D **Lab ID: 40187293023** Collected: 05/07/19 12:55 Received: 05/09/19 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		05/13/19 13:32	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		05/13/19 13:32	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		05/13/19 13:32	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		05/13/19 13:32	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		05/13/19 13:32	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		05/13/19 13:32	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		05/13/19 13:32	79-00-5	
Trichloroethene	977	ug/L	10.0	2.6	10		05/13/19 13:32	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		05/13/19 13:32	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		05/13/19 13:32	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		05/13/19 13:32	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		05/13/19 13:32	108-67-8	
Vinyl chloride	26.6	ug/L	10.0	1.7	10		05/13/19 13:32	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		05/13/19 13:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		10		05/13/19 13:32	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		05/13/19 13:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		05/13/19 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-9 **Lab ID: 40187293024** Collected: 05/07/19 13:15 Received: 05/09/19 09:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<493	ug/L	2000	493	2000		05/10/19 10:11	71-43-2	
Bromobenzene	<482	ug/L	2000	482	2000		05/10/19 10:11	108-86-1	
Bromochloromethane	<724	ug/L	10000	724	2000		05/10/19 10:11	74-97-5	
Bromodichloromethane	<727	ug/L	2420	727	2000		05/10/19 10:11	75-27-4	
Bromoform	<7940	ug/L	26500	7940	2000		05/10/19 10:11	75-25-2	
Bromomethane	<1940	ug/L	10000	1940	2000		05/10/19 10:11	74-83-9	
n-Butylbenzene	<1420	ug/L	4720	1420	2000		05/10/19 10:11	104-51-8	
sec-Butylbenzene	<1700	ug/L	10000	1700	2000		05/10/19 10:11	135-98-8	
tert-Butylbenzene	<608	ug/L	2030	608	2000		05/10/19 10:11	98-06-6	
Carbon tetrachloride	<332	ug/L	2000	332	2000		05/10/19 10:11	56-23-5	
Chlorobenzene	<1420	ug/L	4740	1420	2000		05/10/19 10:11	108-90-7	
Chloroethane	<2680	ug/L	10000	2680	2000		05/10/19 10:11	75-00-3	
Chloroform	<2550	ug/L	10000	2550	2000		05/10/19 10:11	67-66-3	
Chloromethane	<4380	ug/L	14600	4380	2000		05/10/19 10:11	74-87-3	
2-Chlorotoluene	<1850	ug/L	10000	1850	2000		05/10/19 10:11	95-49-8	
4-Chlorotoluene	<1510	ug/L	5040	1510	2000		05/10/19 10:11	106-43-4	
1,2-Dibromo-3-chloropropane	<3530	ug/L	11800	3530	2000		05/10/19 10:11	96-12-8	
Dibromochloromethane	<5200	ug/L	17300	5200	2000		05/10/19 10:11	124-48-1	
1,2-Dibromoethane (EDB)	<1660	ug/L	5530	1660	2000		05/10/19 10:11	106-93-4	
Dibromomethane	<1870	ug/L	6250	1870	2000		05/10/19 10:11	74-95-3	
1,2-Dichlorobenzene	<1410	ug/L	4700	1410	2000		05/10/19 10:11	95-50-1	
1,3-Dichlorobenzene	<1260	ug/L	4190	1260	2000		05/10/19 10:11	541-73-1	
1,4-Dichlorobenzene	<1890	ug/L	6290	1890	2000		05/10/19 10:11	106-46-7	
Dichlorodifluoromethane	<999	ug/L	10000	999	2000		05/10/19 10:11	75-71-8	
1,1-Dichloroethane	<545	ug/L	2000	545	2000		05/10/19 10:11	75-34-3	
1,2-Dichloroethane	<560	ug/L	2000	560	2000		05/10/19 10:11	107-06-2	
1,1-Dichloroethene	<490	ug/L	2000	490	2000		05/10/19 10:11	75-35-4	M1
cis-1,2-Dichloroethene	104000	ug/L	2000	542	2000		05/10/19 10:11	156-59-2	M1,R1
trans-1,2-Dichloroethene	<2180	ug/L	7270	2180	2000		05/10/19 10:11	156-60-5	M1
1,2-Dichloropropane	<566	ug/L	2000	566	2000		05/10/19 10:11	78-87-5	
1,3-Dichloropropane	<1650	ug/L	5510	1650	2000		05/10/19 10:11	142-28-9	
2,2-Dichloropropane	<4530	ug/L	15100	4530	2000		05/10/19 10:11	594-20-7	
1,1-Dichloropropene	<1080	ug/L	3600	1080	2000		05/10/19 10:11	563-58-6	
cis-1,3-Dichloropropene	<7260	ug/L	24200	7260	2000		05/10/19 10:11	10061-01-5	
trans-1,3-Dichloropropene	<8740	ug/L	29100	8740	2000		05/10/19 10:11	10061-02-6	
Diisopropyl ether	<3780	ug/L	12600	3780	2000		05/10/19 10:11	108-20-3	
Ethylbenzene	<436	ug/L	2000	436	2000		05/10/19 10:11	100-41-4	M1
Hexachloro-1,3-butadiene	<2360	ug/L	10000	2360	2000		05/10/19 10:11	87-68-3	
Isopropylbenzene (Cumene)	<786	ug/L	10000	786	2000		05/10/19 10:11	98-82-8	
p-Isopropyltoluene	<1600	ug/L	5330	1600	2000		05/10/19 10:11	99-87-6	
Methylene Chloride	<1160	ug/L	10000	1160	2000		05/10/19 10:11	75-09-2	
Methyl-tert-butyl ether	<2490	ug/L	8310	2490	2000		05/10/19 10:11	1634-04-4	
Naphthalene	<2350	ug/L	10000	2350	2000		05/10/19 10:11	91-20-3	
n-Propylbenzene	<1620	ug/L	10000	1620	2000		05/10/19 10:11	103-65-1	
Styrene	<931	ug/L	3100	931	2000		05/10/19 10:11	100-42-5	
1,1,1,2-Tetrachloroethane	<538	ug/L	2000	538	2000		05/10/19 10:11	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: PZ-9 **Lab ID: 40187293024** Collected: 05/07/19 13:15 Received: 05/09/19 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	<551	ug/L	2000	551	2000		05/10/19 10:11	79-34-5	
Tetrachloroethene	<653	ug/L	2180	653	2000		05/10/19 10:11	127-18-4	M1
Toluene	<344	ug/L	10000	344	2000		05/10/19 10:11	108-88-3	M1
1,2,3-Trichlorobenzene	<1250	ug/L	10000	1250	2000		05/10/19 10:11	87-61-6	
1,2,4-Trichlorobenzene	<1900	ug/L	10000	1900	2000		05/10/19 10:11	120-82-1	
1,1,1-Trichloroethane	<490	ug/L	2000	490	2000		05/10/19 10:11	71-55-6	
1,1,2-Trichloroethane	<1100	ug/L	10000	1100	2000		05/10/19 10:11	79-00-5	
Trichloroethene	78600	ug/L	2000	510	2000		05/10/19 10:11	79-01-6	M1
Trichlorofluoromethane	<430	ug/L	2000	430	2000		05/10/19 10:11	75-69-4	
1,2,3-Trichloropropane	<1180	ug/L	10000	1180	2000		05/10/19 10:11	96-18-4	
1,2,4-Trimethylbenzene	<1680	ug/L	5600	1680	2000		05/10/19 10:11	95-63-6	
1,3,5-Trimethylbenzene	<1750	ug/L	5820	1750	2000		05/10/19 10:11	108-67-8	
Vinyl chloride	5530	ug/L	2000	349	2000		05/10/19 10:11	75-01-4	M1
Xylene (Total)	<3000	ug/L	6000	3000	2000		05/10/19 10:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		2000		05/10/19 10:11	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2000		05/10/19 10:11	1868-53-7	
Toluene-d8 (S)	98	%	70-130		2000		05/10/19 10:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-16 **Lab ID: 40187293025** Collected: 05/07/19 13:30 Received: 05/09/19 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		05/13/19 12:06	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/13/19 12:06	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/13/19 12:06	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/13/19 12:06	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/13/19 12:06	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/13/19 12:06	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:06	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/13/19 12:06	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/13/19 12:06	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/13/19 12:06	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:06	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/13/19 12:06	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/13/19 12:06	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/13/19 12:06	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/13/19 12:06	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/13/19 12:06	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/13/19 12:06	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/13/19 12:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/13/19 12:06	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/13/19 12:06	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:06	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/13/19 12:06	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/13/19 12:06	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/13/19 12:06	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 12:06	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/13/19 12:06	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		05/13/19 12:06	75-35-4	
cis-1,2-Dichloroethene	9.4	ug/L	1.0	0.27	1		05/13/19 12:06	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		05/13/19 12:06	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/13/19 12:06	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/13/19 12:06	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/13/19 12:06	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/13/19 12:06	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/13/19 12:06	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/13/19 12:06	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/13/19 12:06	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/13/19 12:06	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/13/19 12:06	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/13/19 12:06	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/13/19 12:06	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/13/19 12:06	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/13/19 12:06	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/13/19 12:06	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/13/19 12:06	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/13/19 12:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 12:06	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-16 **Lab ID: 40187293025** Collected: 05/07/19 13:30 Received: 05/09/19 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		05/13/19 12:06	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/13/19 12:06	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/13/19 12:06	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/13/19 12:06	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/13/19 12:06	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/13/19 12:06	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/13/19 12:06	79-00-5	
Trichloroethene	9.9	ug/L	1.0	0.26	1		05/13/19 12:06	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/13/19 12:06	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/13/19 12:06	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/13/19 12:06	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/13/19 12:06	108-67-8	
Vinyl chloride	0.48J	ug/L	1.0	0.17	1		05/13/19 12:06	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/13/19 12:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/13/19 12:06	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		05/13/19 12:06	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/13/19 12:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-18 **Lab ID: 40187293026** Collected: 05/07/19 14:00 Received: 05/09/19 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		05/13/19 12:28	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		05/13/19 12:28	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		05/13/19 12:28	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		05/13/19 12:28	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		05/13/19 12:28	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		05/13/19 12:28	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:28	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		05/13/19 12:28	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		05/13/19 12:28	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		05/13/19 12:28	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:28	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		05/13/19 12:28	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		05/13/19 12:28	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		05/13/19 12:28	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		05/13/19 12:28	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		05/13/19 12:28	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		05/13/19 12:28	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		05/13/19 12:28	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		05/13/19 12:28	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		05/13/19 12:28	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		05/13/19 12:28	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		05/13/19 12:28	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		05/13/19 12:28	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		05/13/19 12:28	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 12:28	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		05/13/19 12:28	107-06-2	
1,1-Dichloroethene	0.59J	ug/L	1.0	0.24	1		05/13/19 12:28	75-35-4	
cis-1,2-Dichloroethene	82.7	ug/L	1.0	0.27	1		05/13/19 12:28	156-59-2	
trans-1,2-Dichloroethene	1.5J	ug/L	3.6	1.1	1		05/13/19 12:28	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		05/13/19 12:28	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		05/13/19 12:28	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		05/13/19 12:28	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		05/13/19 12:28	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		05/13/19 12:28	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		05/13/19 12:28	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		05/13/19 12:28	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		05/13/19 12:28	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		05/13/19 12:28	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		05/13/19 12:28	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		05/13/19 12:28	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		05/13/19 12:28	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		05/13/19 12:28	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		05/13/19 12:28	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		05/13/19 12:28	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		05/13/19 12:28	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		05/13/19 12:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Sample: MW-18 **Lab ID: 40187293026** Collected: 05/07/19 14:00 Received: 05/09/19 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		05/13/19 12:28	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		05/13/19 12:28	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		05/13/19 12:28	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		05/13/19 12:28	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		05/13/19 12:28	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		05/13/19 12:28	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		05/13/19 12:28	79-00-5	
Trichloroethene	41.5	ug/L	1.0	0.26	1		05/13/19 12:28	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		05/13/19 12:28	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		05/13/19 12:28	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		05/13/19 12:28	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		05/13/19 12:28	108-67-8	
Vinyl chloride	12.2	ug/L	1.0	0.17	1		05/13/19 12:28	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/13/19 12:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		05/13/19 12:28	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		05/13/19 12:28	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/13/19 12:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40187293

QC Batch: 320928 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40187293001, 40187293002, 40187293003, 40187293004, 40187293005, 40187293006, 40187293007, 40187293008, 40187293009, 40187293010, 40187293011, 40187293012, 40187293013, 40187293014, 40187293015, 40187293016, 40187293017, 40187293018, 40187293019, 40187293020

METHOD BLANK: 1864142 Matrix: Water
Associated Lab Samples: 40187293001, 40187293002, 40187293003, 40187293004, 40187293005, 40187293006, 40187293007, 40187293008, 40187293009, 40187293010, 40187293011, 40187293012, 40187293013, 40187293014, 40187293015, 40187293016, 40187293017, 40187293018, 40187293019, 40187293020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	05/10/19 07:03	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/10/19 07:03	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	05/10/19 07:03	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/10/19 07:03	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/10/19 07:03	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/10/19 07:03	
1,1-Dichloropropene	ug/L	<0.54	1.8	05/10/19 07:03	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	05/10/19 07:03	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	05/10/19 07:03	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/10/19 07:03	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/10/19 07:03	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/10/19 07:03	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/10/19 07:03	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	05/10/19 07:03	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/10/19 07:03	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/10/19 07:03	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/10/19 07:03	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	05/10/19 07:03	
1,3-Dichloropropane	ug/L	<0.83	2.8	05/10/19 07:03	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/10/19 07:03	
2,2-Dichloropropane	ug/L	<2.3	7.6	05/10/19 07:03	
2-Chlorotoluene	ug/L	<0.93	5.0	05/10/19 07:03	
4-Chlorotoluene	ug/L	<0.76	2.5	05/10/19 07:03	
Benzene	ug/L	<0.25	1.0	05/10/19 07:03	
Bromobenzene	ug/L	<0.24	1.0	05/10/19 07:03	
Bromochloromethane	ug/L	<0.36	5.0	05/10/19 07:03	
Bromodichloromethane	ug/L	<0.36	1.2	05/10/19 07:03	
Bromoform	ug/L	<4.0	13.2	05/10/19 07:03	
Bromomethane	ug/L	<0.97	5.0	05/10/19 07:03	
Carbon tetrachloride	ug/L	<0.17	1.0	05/10/19 07:03	
Chlorobenzene	ug/L	<0.71	2.4	05/10/19 07:03	
Chloroethane	ug/L	<1.3	5.0	05/10/19 07:03	
Chloroform	ug/L	<1.3	5.0	05/10/19 07:03	
Chloromethane	ug/L	<2.2	7.3	05/10/19 07:03	
cis-1,2-Dichloroethane	ug/L	<0.27	1.0	05/10/19 07:03	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/10/19 07:03	
Dibromochloromethane	ug/L	<2.6	8.7	05/10/19 07:03	
Dibromomethane	ug/L	<0.94	3.1	05/10/19 07:03	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

METHOD BLANK: 1864142

Matrix: Water

Associated Lab Samples: 40187293001, 40187293002, 40187293003, 40187293004, 40187293005, 40187293006, 40187293007, 40187293008, 40187293009, 40187293010, 40187293011, 40187293012, 40187293013, 40187293014, 40187293015, 40187293016, 40187293017, 40187293018, 40187293019, 40187293020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/10/19 07:03	
Diisopropyl ether	ug/L	<1.9	6.3	05/10/19 07:03	
Ethylbenzene	ug/L	<0.22	1.0	05/10/19 07:03	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	05/10/19 07:03	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	05/10/19 07:03	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/10/19 07:03	
Methylene Chloride	ug/L	<0.58	5.0	05/10/19 07:03	
n-Butylbenzene	ug/L	<0.71	2.4	05/10/19 07:03	
n-Propylbenzene	ug/L	<0.81	5.0	05/10/19 07:03	
Naphthalene	ug/L	<1.2	5.0	05/10/19 07:03	
p-Isopropyltoluene	ug/L	<0.80	2.7	05/10/19 07:03	
sec-Butylbenzene	ug/L	<0.85	5.0	05/10/19 07:03	
Styrene	ug/L	<0.47	1.6	05/10/19 07:03	
tert-Butylbenzene	ug/L	<0.30	1.0	05/10/19 07:03	
Tetrachloroethene	ug/L	<0.33	1.1	05/10/19 07:03	
Toluene	ug/L	<0.17	5.0	05/10/19 07:03	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/10/19 07:03	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/10/19 07:03	
Trichloroethene	ug/L	<0.26	1.0	05/10/19 07:03	
Trichlorofluoromethane	ug/L	<0.21	1.0	05/10/19 07:03	
Vinyl chloride	ug/L	<0.17	1.0	05/10/19 07:03	
4-Bromofluorobenzene (S)	%	95	70-130	05/10/19 07:03	
Dibromofluoromethane (S)	%	101	70-130	05/10/19 07:03	
Toluene-d8 (S)	%	102	70-130	05/10/19 07:03	

LABORATORY CONTROL SAMPLE: 1864143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.8	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.3	113	70-130	
1,1,2-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1-Dichloroethane	ug/L	50	54.8	110	73-150	
1,1-Dichloroethene	ug/L	50	55.1	110	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	55.6	111	70-130	
1,2-Dichlorobenzene	ug/L	50	56.1	112	70-130	
1,2-Dichloroethane	ug/L	50	52.7	105	75-140	
1,2-Dichloropropane	ug/L	50	56.3	113	73-135	
1,3-Dichlorobenzene	ug/L	50	57.0	114	70-130	
1,4-Dichlorobenzene	ug/L	50	56.2	112	70-130	
Benzene	ug/L	50	56.1	112	70-130	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

LABORATORY CONTROL SAMPLE: 1864143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	54.1	108	70-130	
Bromoform	ug/L	50	56.0	112	68-129	
Bromomethane	ug/L	50	42.8	86	18-159	
Carbon tetrachloride	ug/L	50	55.8	112	70-130	
Chlorobenzene	ug/L	50	54.8	110	70-130	
Chloroethane	ug/L	50	52.6	105	53-147	
Chloroform	ug/L	50	49.7	99	74-136	
Chloromethane	ug/L	50	43.3	87	29-115	
cis-1,2-Dichloroethene	ug/L	50	52.4	105	70-130	
cis-1,3-Dichloropropene	ug/L	50	54.9	110	70-130	
Dibromochloromethane	ug/L	50	54.8	110	70-130	
Dichlorodifluoromethane	ug/L	50	44.1	88	10-130	
Ethylbenzene	ug/L	50	57.0	114	80-124	
Isopropylbenzene (Cumene)	ug/L	50	57.1	114	70-130	
Methyl-tert-butyl ether	ug/L	50	52.1	104	54-137	
Methylene Chloride	ug/L	50	54.1	108	73-138	
Styrene	ug/L	50	58.5	117	70-130	
Tetrachloroethene	ug/L	50	50.7	101	70-130	
Toluene	ug/L	50	54.5	109	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	73-145	
trans-1,3-Dichloropropene	ug/L	50	54.1	108	70-130	
Trichloroethene	ug/L	50	56.1	112	70-130	
Trichlorofluoromethane	ug/L	50	61.0	122	76-147	
Vinyl chloride	ug/L	50	53.5	107	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865165 1865166

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40187293002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.24	50	50	56.6	56.5	113	113	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	57.1	58.5	114	117	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.0	55.9	110	112	70-137	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.9	56.4	110	113	73-153	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	54.9	54.7	110	109	73-138	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.9	52.4	100	105	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	54.0	54.0	108	108	58-129	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	58.1	57.6	116	115	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	54.8	59.4	110	119	70-130	8	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	56.0	55.6	112	111	75-140	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	54.4	56.5	109	113	71-138	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	56.0	58.9	112	118	70-130	5	20	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Parameter	Units	1865165		1865166		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40187293002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,4-Dichlorobenzene	ug/L	<0.94	50	50	55.4	58.8	111	118	70-130	6	20	
Benzene	ug/L	<0.25	50	50	56.2	57.1	112	114	70-130	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	54.0	55.6	108	111	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	57.4	56.2	115	112	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	41.8	41.7	84	83	15-170	0	20	
Carbon tetrachloride	ug/L	<0.17	50	50	55.9	57.1	112	114	70-130	2	20	
Chlorobenzene	ug/L	<0.71	50	50	56.1	56.5	112	113	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	52.0	53.2	104	106	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	55.0	53.4	110	107	74-136	3	20	
Chloromethane	ug/L	<2.2	50	50	42.8	43.8	86	88	23-115	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.6	53.8	103	108	70-131	4	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	55.0	56.1	110	112	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	55.6	56.4	111	113	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	42.6	43.5	85	87	10-132	2	20	
Ethylbenzene	ug/L	<0.22	50	50	57.3	58.5	115	117	80-125	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	58.5	59.6	117	119	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	53.2	52.5	106	105	51-145	1	20	
Methylene Chloride	ug/L	<0.58	50	50	55.3	56.4	111	113	73-140	2	20	
Styrene	ug/L	<0.47	50	50	58.9	59.5	118	119	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.9	51.6	102	103	70-130	1	20	
Toluene	ug/L	<0.17	50	50	54.9	56.5	110	113	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	54.6	55.1	109	110	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	56.0	55.4	112	111	70-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	55.6	56.8	111	114	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	60.2	60.2	120	120	74-147	0	20	
Vinyl chloride	ug/L	<0.17	50	50	53.1	53.4	106	107	41-129	1	20	
4-Bromofluorobenzene (S)	%						98	97	70-130			
Dibromofluoromethane (S)	%						104	102	70-130			
Toluene-d8 (S)	%						100	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40187293

QC Batch: 320929 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40187293021, 40187293022, 40187293023, 40187293024, 40187293025, 40187293026

METHOD BLANK: 1864144 Matrix: Water
Associated Lab Samples: 40187293021, 40187293022, 40187293023, 40187293024, 40187293025, 40187293026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	05/10/19 08:02	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	05/10/19 08:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	05/10/19 08:02	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	05/10/19 08:02	
1,1-Dichloroethane	ug/L	<0.27	1.0	05/10/19 08:02	
1,1-Dichloroethene	ug/L	<0.24	1.0	05/10/19 08:02	
1,1-Dichloropropene	ug/L	<0.54	1.8	05/10/19 08:02	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	05/10/19 08:02	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	05/10/19 08:02	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	05/10/19 08:02	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	05/10/19 08:02	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	05/10/19 08:02	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	05/10/19 08:02	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	05/10/19 08:02	
1,2-Dichloroethane	ug/L	<0.28	1.0	05/10/19 08:02	
1,2-Dichloropropane	ug/L	<0.28	1.0	05/10/19 08:02	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	05/10/19 08:02	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	05/10/19 08:02	
1,3-Dichloropropane	ug/L	<0.83	2.8	05/10/19 08:02	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	05/10/19 08:02	
2,2-Dichloropropane	ug/L	<2.3	7.6	05/10/19 08:02	
2-Chlorotoluene	ug/L	<0.93	5.0	05/10/19 08:02	
4-Chlorotoluene	ug/L	<0.76	2.5	05/10/19 08:02	
Benzene	ug/L	<0.25	1.0	05/10/19 08:02	
Bromobenzene	ug/L	<0.24	1.0	05/10/19 08:02	
Bromochloromethane	ug/L	<0.36	5.0	05/10/19 08:02	
Bromodichloromethane	ug/L	<0.36	1.2	05/10/19 08:02	
Bromoform	ug/L	<4.0	13.2	05/10/19 08:02	
Bromomethane	ug/L	<0.97	5.0	05/10/19 08:02	
Carbon tetrachloride	ug/L	<0.17	1.0	05/10/19 08:02	
Chlorobenzene	ug/L	<0.71	2.4	05/10/19 08:02	
Chloroethane	ug/L	<1.3	5.0	05/10/19 08:02	
Chloroform	ug/L	<1.3	5.0	05/10/19 08:02	
Chloromethane	ug/L	<2.2	7.3	05/10/19 08:02	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	05/10/19 08:02	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	05/10/19 08:02	
Dibromochloromethane	ug/L	<2.6	8.7	05/10/19 08:02	
Dibromomethane	ug/L	<0.94	3.1	05/10/19 08:02	
Dichlorodifluoromethane	ug/L	<0.50	5.0	05/10/19 08:02	
Diisopropyl ether	ug/L	<1.9	6.3	05/10/19 08:02	
Ethylbenzene	ug/L	<0.22	1.0	05/10/19 08:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

METHOD BLANK: 1864144

Matrix: Water

Associated Lab Samples: 40187293021, 40187293022, 40187293023, 40187293024, 40187293025, 40187293026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	05/10/19 08:02	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	05/10/19 08:02	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	05/10/19 08:02	
Methylene Chloride	ug/L	<0.58	5.0	05/10/19 08:02	
n-Butylbenzene	ug/L	<0.71	2.4	05/10/19 08:02	
n-Propylbenzene	ug/L	<0.81	5.0	05/10/19 08:02	
Naphthalene	ug/L	<1.2	5.0	05/10/19 08:02	
p-Isopropyltoluene	ug/L	<0.80	2.7	05/10/19 08:02	
sec-Butylbenzene	ug/L	<0.85	5.0	05/10/19 08:02	
Styrene	ug/L	<0.47	1.6	05/10/19 08:02	
tert-Butylbenzene	ug/L	<0.30	1.0	05/10/19 08:02	
Tetrachloroethene	ug/L	<0.33	1.1	05/10/19 08:02	
Toluene	ug/L	<0.17	5.0	05/10/19 08:02	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	05/10/19 08:02	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	05/10/19 08:02	
Trichloroethene	ug/L	<0.26	1.0	05/10/19 08:02	
Trichlorofluoromethane	ug/L	<0.21	1.0	05/10/19 08:02	
Vinyl chloride	ug/L	<0.17	1.0	05/10/19 08:02	
Xylene (Total)	ug/L	<1.5	3.0	05/10/19 08:02	
4-Bromofluorobenzene (S)	%	89	70-130	05/10/19 08:02	
Dibromofluoromethane (S)	%	100	70-130	05/10/19 08:02	
Toluene-d8 (S)	%	98	70-130	05/10/19 08:02	

LABORATORY CONTROL SAMPLE: 1864145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.3	101	70-130	
1,1,2-Trichloroethane	ug/L	50	53.9	108	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	73-150	
1,1-Dichloroethene	ug/L	50	50.8	102	73-138	
1,2,4-Trichlorobenzene	ug/L	50	48.9	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.4	101	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	70-130	
1,2-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,2-Dichloroethane	ug/L	50	49.5	99	75-140	
1,2-Dichloropropane	ug/L	50	48.6	97	73-135	
1,3-Dichlorobenzene	ug/L	50	50.1	100	70-130	
1,4-Dichlorobenzene	ug/L	50	51.9	104	70-130	
Benzene	ug/L	50	53.1	106	70-130	
Bromodichloromethane	ug/L	50	52.4	105	70-130	
Bromoform	ug/L	50	50.1	100	68-129	
Bromomethane	ug/L	50	34.8	70	18-159	
Carbon tetrachloride	ug/L	50	52.9	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

LABORATORY CONTROL SAMPLE: 1864145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	55.2	110	70-130	
Chloroethane	ug/L	50	43.1	86	53-147	
Chloroform	ug/L	50	51.2	102	74-136	
Chloromethane	ug/L	50	37.4	75	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	55.4	111	70-130	
Dichlorodifluoromethane	ug/L	50	37.6	75	10-130	
Ethylbenzene	ug/L	50	56.4	113	80-124	
Isopropylbenzene (Cumene)	ug/L	50	54.5	109	70-130	
Methyl-tert-butyl ether	ug/L	50	47.0	94	54-137	
Methylene Chloride	ug/L	50	50.6	101	73-138	
Styrene	ug/L	50	53.7	107	70-130	
Tetrachloroethene	ug/L	50	53.1	106	70-130	
Toluene	ug/L	50	55.5	111	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.7	101	73-145	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	76-147	
Vinyl chloride	ug/L	50	40.0	80	51-120	
Xylene (Total)	ug/L	150	176	117	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1864174 1864175

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40187293024	Result	Spike Conc.	MSD Spike Conc.								
1,1,1-Trichloroethane	ug/L	<490	50	50	56.7	58.9	113	118	70-130	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<551	50	50	49.0	49.9	98	100	70-130	2	20		
1,1,2-Trichloroethane	ug/L	<1100	50	50	53.3	55.8	107	112	70-137	5	20		
1,1-Dichloroethane	ug/L	<545	50	50	41.2	42.6	82	85	73-153	3	20		
1,1-Dichloroethene	ug/L	<490	50	50	300	319	600	638	73-138	6	20	E,M1	
1,2,4-Trichlorobenzene	ug/L	<1900	50	50	49.5	50.9	99	102	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<3530	50	50	52.1	54.4	104	109	58-129	4	20		
1,2-Dibromoethane (EDB)	ug/L	<1660	50	50	52.9	55.6	106	111	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<1410	50	50	51.7	53.7	103	107	70-130	4	20		
1,2-Dichloroethane	ug/L	<560	50	50	48.9	51.0	98	102	75-140	4	20		
1,2-Dichloropropane	ug/L	<566	50	50	47.2	47.2	94	94	71-138	0	20		
1,3-Dichlorobenzene	ug/L	<1260	50	50	49.6	51.9	99	104	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<1890	50	50	50.9	52.4	102	105	70-130	3	20		
Benzene	ug/L	<493	50	50	57.6	59.8	115	120	70-130	4	20		
Bromodichloromethane	ug/L	<727	50	50	54.4	54.7	109	109	70-130	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1864174 1864175												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40187293024 Result	Spike Conc.	Spike Conc.	MS Result							
Bromoform	ug/L	<7940	50	50	51.9	53.4	104	107	68-129	3	20	
Bromomethane	ug/L	<1940	50	50	33.2	37.1	66	74	15-170	11	20	
Carbon tetrachloride	ug/L	<332	50	50	56.6	59.7	113	119	70-130	5	20	
Chlorobenzene	ug/L	<1420	50	50	52.9	55.3	106	111	70-130	4	20	
Chloroethane	ug/L	<2680	50	50	45.6	49.6	91	99	51-148	8	20	
Chloroform	ug/L	<2550	50	50	47.9	50.7	96	101	74-136	6	20	
Chloromethane	ug/L	<4380	50	50	35.9	43.0	72	86	23-115	18	20	
cis-1,2-Dichloroethene	ug/L	104000	50	50	4070	11300	-201000	-186000	70-131	94	20	E,M1, R1
cis-1,3-Dichloropropene	ug/L	<7260	50	50	50.9	51.4	102	103	70-130	1	20	
Dibromochloromethane	ug/L	<5200	50	50	58.3	61.5	117	123	70-130	5	20	
Dichlorodifluoromethane	ug/L	<999	50	50	34.5	34.3	69	69	10-132	1	20	
Ethylbenzene	ug/L	<436	50	50	80.6	83.9	161	168	80-125	4	20	M1
Isopropylbenzene (Cumene)	ug/L	<786	50	50	52.6	55.9	105	112	70-130	6	20	
Methyl-tert-butyl ether	ug/L	<2490	50	50	47.7	48.7	95	97	51-145	2	20	
Methylene Chloride	ug/L	<1160	50	50	48.8	51.3	98	103	73-140	5	20	
Styrene	ug/L	<931	50	50	56.6	58.3	113	117	70-130	3	20	
Tetrachloroethene	ug/L	<653	50	50	67.1	68.8	134	138	70-130	2	20	M1
Toluene	ug/L	<344	50	50	64.9	67.0	130	134	80-131	3	20	M1
trans-1,2-Dichloroethene	ug/L	<2180	50	50	864	722	-3	-287	73-148	18	20	E,M1
trans-1,3-Dichloropropene	ug/L	<8740	50	50	53.4	55.9	107	112	70-130	4	20	
Trichloroethene	ug/L	78600	50	50	10200	9930	-137000	-137000	70-130	2	20	E,M1
Trichlorofluoromethane	ug/L	<430	50	50	47.8	53.0	96	106	74-147	10	20	
Vinyl chloride	ug/L	5530	50	50	3350	3360	-4360	-4340	41-129	0	20	E,M1
Xylene (Total)	ug/L	<3000	150	150	175	182	117	121	70-130	4	20	
4-Bromofluorobenzene (S)	%						98	101	70-130			
Dibromofluoromethane (S)	%						100	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60578356 MANKOWSKI

Pace Project No.: 40187293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40187293001	TRIP BLANK	EPA 8260	320928		
40187293002	MW-12	EPA 8260	320928		
40187293003	MW-13	EPA 8260	320928		
40187293004	PZ-14	EPA 8260	320928		
40187293005	MW-14R	EPA 8260	320928		
40187293006	MW-15	EPA 8260	320928		
40187293007	MW-20	EPA 8260	320928		
40187293008	MW-25	EPA 8260	320928		
40187293009	MW-23	EPA 8260	320928		
40187293010	SMW-3	EPA 8260	320928		
40187293011	TW-2	EPA 8260	320928		
40187293012	TW-1	EPA 8260	320928		
40187293013	PZ-9B	EPA 8260	320928		
40187293014	MW-26	EPA 8260	320928		
40187293015	MW-24	EPA 8260	320928		
40187293016	MW-21	EPA 8260	320928		
40187293017	SMW-2	EPA 8260	320928		
40187293018	MW-22	EPA 8260	320928		
40187293019	MW-27	EPA 8260	320928		
40187293020	MW-27D	EPA 8260	320928		
40187293021	MW-9R	EPA 8260	320929		
40187293022	MW-19	EPA 8260	320929		
40187293023	MW-19D	EPA 8260	320929		
40187293024	PZ-9	EPA 8260	320929		
40187293025	MW-16	EPA 8260	320929		
40187293026	MW-18	EPA 8260	320929		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: AECOM
 Branch/Location: MILWAUKEE
 Project Contact: Joel Mackinney
 Phone: joel.mackinney@aecom.com
 Project Number: 6057293
 Project Name: MANKOWSKI
 Project State: WISCONSIN
 Sampled By (Print): JSM + EMS
 Sampled By (Sign): [Signature]
 PO #: [Blank] Regulatory Program: [Blank]



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

6057293

CHAIN OF CUSTODY

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

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

Y/N	N																		
Pick Letter	B																		
Analyses Requested	VOCs 8260																		

Quote #: [Blank]
 Mail To Contact: Joel Mackinney
 Mail To Company: AECOM
 Mail To Address: [Blank]
 Invoice To Contact: LANEtte Aitenbach
 Invoice To Company: AECOM
 Invoice To Address: [Blank]
 Invoice To Phone: [Blank]

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N														
		DATE	TIME																	
001	TRIP BLANK	5/6/19	1200	GW	X															
002	MW-12		1230		X															
003	MW-13		1320		X															
004	PZ-14		1420		X															
005	MW-14R		1440		X															
006	MW-15		1515		X															
007	MW-20		1550		X															
008	MW-25		1630		X															
009	MW-23		1635		X															
010	SMW-3		1715		X															
011	TW-2	5/7/19	830		X															
012	TW-1		840		X															
013	PZ-9B		930		X															

CLIENT COMMENTS
LAB COMMENTS (Lab Use Only)
Profile #

Correction per JM, 5/16/19

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

Transmit Prelim Rush Results by (complete what you want):
 Email #1: joel.mackinney@aecom.com
 Email #2: [Blank]
 Telephone: [Blank]
 Fax: [Blank]

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

Relinquished By: [Signature] Date/Time: 5/8/19 9AM
 Relinquished By: Mary Jamin Date/Time: 5/8/19 1500
 Relinquished By: [Signature] Date/Time: 5-9-19 0925
 Relinquished By: [Blank] Date/Time: [Blank]
 Relinquished By: [Blank] Date/Time: [Blank]

Received By: Mary Jamin Date/Time: 5/8/19 1220
 Received By: [Signature] Date/Time: [Blank]
 Received By: [Signature] Date/Time: 5-9-19 0925
 Received By: [Blank] Date/Time: [Blank]
 Received By: [Blank] Date/Time: [Blank]

PACE Project No. 6057293
 Receipt Temp = 102 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name:	AECOM
Branch/Location:	Milwaukee
Project Contact:	Joel Mackinney
Phone:	
Project Number:	40578356
Project Name:	Mankowski
Project State:	WISCONSIN
Sampled By (Print):	EMS
Sampled By (Sign):	Gully Longstock
PO #:	
Regulatory Program:	



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

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CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)

 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	COLLECTION																
			DATE	TIME	MATRIX	1	2	3	4	5	6	7	8	9	10				
N	B	VOCs 8200																	
		VOCs 8200																	

Data Package Options (billable) <input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	MS/MSD <input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample	Matrix Codes A = Air W = Water B = Biota DW = Drinking Water C = Charcoal GW = Ground Water O = Oil SW = Surface Water S = Soil WW = Waste Water SI = Sludge WP = Wipe
--	---	---

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	MW-26	5/7/19	1000	GW
015	MW-24		1015	
016	MW-21		1040	
017	SMW-2		1110	
018	MW-22		1130	
019	MW-27		1200	
020	MW-27D		1205	
021	MW-9R		1220	
022	MW-19		1250	
023	MW-19D		1255	
024	PZ-9P		1315	
025	MW-16		1330	
026	MW-18		1400	

Quote #:		
Mail To Contact:	Joel Mackinney	
Mail To Company:	AECOM	
Mail To Address:		
Invoice To Contact:	Lanette Altenbach	
Invoice To Company:	AECOM	
Invoice To Address:		
Invoice To Phone:		
CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

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

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

Email #1: joel.mackinney@aecom.com
 Email #2:
 Telephone:
 Fax:

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

Relinquished By: Gully Longstock Date/Time: 5/8/19 9AM

Relinquished By: Mary Jamir Date/Time: 5/8/19 1500

Relinquished By: CS Logistics Date/Time: 5-9-19 0925

Relinquished By:

Received By: Mary Jamir Date/Time: 5/8/19 1220

Received By: Joe King Date/Time: 5-9-19 0925

Received By:

PACE Project No.
40187293

Receipt Temp = 20.2 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Correction per JM, 5/10/19

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 8
Green Bay, WI 54303

Client Name: AECOM

Project # 00187293

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

Initial when completed:

Date/Time:

Page

Lab Lot# of pH paper:

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

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)			
	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		
001																	3																		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:

Client Name: AECOM

Sample Preservation Receipt Form
 Project #: U0187293

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)			
	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		
021																3																			2.5 / 5 / 10
022																3																			2.5 / 5 / 10
023																3																			2.5 / 5 / 10
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																																			2.5 / 5 / 20

 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)

Client Name: AECOM Project #: WO#: 40187293

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

Tracking #: _____

WO#: 40187293



40187293

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 - N/A Type of Ice: W Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: _____ /Corr: R/D

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

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

Person examining contents:
 Date: 5-9-19
 Initials: JK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>416</u>		

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

Person Contacted: Janel Mackenzie Date/Time: 5/9/19

Comments/ Resolution: _____

Per client samples P2-9 and P2-9B were searched in the field. Lab searched samples in Lab based on client directions. 5/10/19 est

Project Manager Review: OK Date: 5/10/19

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