

September 18, 2018

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

**Subject: May 2018 Groundwater Sampling Summary
Former Mankowski Property, 2600 50th Street, Kenosha, Wisconsin
BRRTS # 02-30-554934**

Dear Ms. Billingsley,

AECOM conducted the first of four groundwater sampling events on May 23 and 24, 2018, 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 2018 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 subject to 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 that necessitated further remediation. Soil remediation of these select areas was conducted in 2017. Groundwater monitoring is being conducted to evaluate if the groundwater contamination continues to be stable or are reducing as a result of the soil remediation.

Groundwater Sampling

During the May 2018 sampling event, 21 of the 23 planned groundwater monitoring wells/piezometers were sampled. Monitoring wells MW-16 and MW-18 were not able to be located at this time and were not 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 21 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 in the fill material from the May 2018 measurements depict groundwater flow to the east-northeast (Figure 3). The observed flow direction differs slightly from earlier groundwater contour maps from 2011 and 2012; but remains consistent with the flow direction determined by AECOM in 2016.

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. The lab data were validated for compliance with holding times and other quality control parameters. The duplicates were evaluated for precision and the sample results were with the acceptance criteria. A copy of the memo is attached.

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

<u>VOC</u>	<u>Wells Exceeding the ES</u>	<u>Wells Exceeding the PAL</u>
1,1-Dichloroethene	PZ-9	MW-19 and MW-19D
Cis-1,2-Dichloroethene	MW-9R, PZ-9, MW-19, MW-19D, MW-20, MW-21, MW-22, MW-23, MW-26, MW-27 and MW-27D	MW-18, MW-25 and SMW-2
Trans-1,2-Dichloroethene	MW-9R and PZ-9	MW-19D, MW-21 and MW-27
Trichloroethene	MW-9R, PZ-9, MW-9B, MW-19, MW-19D, MW-21, MW-23, MW-24, MW-25, MW-27, MW-27D and SMW-2	MW-26 and SMW-3
Vinyl chloride	MW-9R, PZ-9, MW-19, MW-19D, MW-20, MW-21, MW-22, MW-23, MW-25, MW-27, and MW-27D	No exceedances

(D is for duplicate)

Groundwater analytical data from the May 2018 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 21 sample locations near the center of the Property. Preventive Action Limit (PAL) exceedances for VOCs were detected in the same 14 locations as the ES exceedances and at one additional location (SMW-3). The extent of VOC groundwater plume is similar to what was identified previously. VOCs were not detected in downgradient monitoring wells MW-14R and MW-15.

Conclusions

The groundwater plume at this time appears to be stable. Further evaluation will be conducted with the future events.

Please contact us if you have questions about this letter.

Yours sincerely,

AECOM Technical Services, Inc.



Alexandra N. Moe
Environmental Engineer

T: 414-944-6184

E: alexandra.moe@aecom.com

Attachments

Tables

Table 1 – Groundwater Measurements and Elevations

Table 2 – Groundwater – Measured Field Parameters

Table 3 – Detected VOCs in Groundwater

Figures

Figure 1 – Site Location

Figure 2 – Site Layout

Figure 3 – Water Table Contour Map – May 2018

Figure 4 – Groundwater Analytical Summary ES Exceedances – May 2018

Laboratory Analytical Report

Data Validation Memo

Cc: Dave Volkert, WDNR Project Manager

Christine Haag, WDNR (by email)



Lanette L. Altenbach, P.G., C.P.G.
Senior Hydrogeologist

T: 414-944-6186

E: lanette.altenbach@aecom.com

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

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	--	--

ft MSL= feet mean sea level
ft = feet NI = Not Installed
^A = as measured inside well
-- not measured; no elevation

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

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

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-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

ft MSL= feet mean sea level
ft = feet NI = Not Installed
^A = as measured inside well
-- not measured; no elevation

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

Well Number	SMW-2		SMW-3		TW-1		TW-2	
Date Installed	July 2011		July 2012					
Ground Elevation (ft)	622.78		623.19		622.27		621.69	
Top of PVC Casing Elevation (ft MSL)	622.46		622.96		623.49		623.85	
Screen Length (ft)	10		10		10		10	
TOC to Bottom of Well (ft) ^A	15.65		16.21		8		17.57	
Top of Screen (ft-MSL)	616.61		616.71		616.14		613.85	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--
10/11/2004	NI	--	NI	--	NI	--	NI	--
10/14/2004	NI	--	NI	--	NI	--	NI	--
11/2/2005	NI	--	NI	--	NI	--	NI	--
2/22/2006	NI	--	NI	--	NI	--	NI	--
11/1/2007	NI	--	NI	--	NI	--	NI	--
11/5/2008	NI	--	NI	--	NI	--	NI	--
7/21/2011	8.00	614.46	NI	--	8.15	615.34	16.10	607.75
4/11/2012	7.73	614.73	NI	--	8.06	615.43	15.95	607.90
4/18/2012	--	--	NI	--	--	--	--	--
7/12/2012	9.54	612.92	9.46	613.50	DRY	--	13.92	609.93
7/5/2016	8.21	614.25	8.18	614.78	6.96	609.18	13.60	610.25
5/23/2018	6.01	616.45	4.77	618.19	2.60	613.54	12.11	611.74

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 (Milivolts)	Conductivity (Micro-ohm/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	0.907	15.4
	5/24/2018	6.63	1.15	71.3	0.772	12.7
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	1	13.4
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	0.459	12.8
MW-14R	4/13/2012	7.20	2.6	-65	NM	10.1
	7/6/2016	7.00	0.91	-116.8	0.784	17.1
	5/23/2018	6.63	0.37	82.2	0.478	14.0
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	0.557	14.3
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	1.701	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	1.114	17.9
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	1.293	16.95
	5/24/2018	6.91	0.21	11	1.044	15.38
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	0.981	18.2
	5/23/2018	6.95	0.32	-22.6	0.967	16.0

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

	Sample Date	pH Units	Dissolved Oxygen (mg/l)	ORP (Milivolts)	Conductivity (Micro-ohm/cm)	Temperature (° Celcius)
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	1.021	16.6
	5/24/2018	6.59	0.38	-17	0.866	13.4
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	1.292	16.0
	5/24/2018	6.77	0.24	-95.7	0.972	14.2
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	1.071	16.24
	5/23/2018	6.68	0.44	-50.8	0.925	13.06
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	0.977	16.5
MW-25	7/21/2011	7.1	0.3	-126	NM	12
	4/11/2012	7.4	2	-40	NM	10
	5/23/2018	6.5	0.38	-14.9	1.164	14
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	0.499	17.03
	5/24/2018	6.28	0.45	77.3	0.360	13.44
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	1.134	16.42
	5/24/2018	6.69	0.38	-49.8	0.872	14.10
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	1.348	15.1
	5/24/2018	6.50	0.32	1.6	0.870	12.6
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	0.438	15.2
	5/24/2018	6.80	0.81	73.4	0.339	15.1
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	1	14.4

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

	Sample Date	pH Units	Dissolved Oxygen (mg/l)	ORP (Milivolts)	Conductivity (Micro-ohm/cm)	Temperature (° Celcius)
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	1.349	16.0
	5/24/2018	6.92	0.33	42.9	1.024	14.9
SMW-3	7/6/2016	6.89	1.52	-139.1	1.589	14.9
	5/23/2018	6.95	4.11	100.5	0.497	14.7
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	0.666	16.0
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	0.556	13.6

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	Methylen e Chloride µg/L	Tetrachlor o-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-8	5/19/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	< 0.5
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	0.09 ^{JB}	< 0.5	< 0.5
	7/23/2002	0.03	NPD	< 0.5	< 0.5	0.3	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.1 ^{JB}	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.19 ^{JB}	< 0.5	< 0.5	NPD	0.26 ^{JB}	< 0.5	< 0.5
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.56
	2/7/2011	< 0.2	NPD	< 0.25	0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 1.2
	6/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 0.3
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.742	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
MW-9R	2/1/2007	<u>1</u>	NPD	NA	182	27,600	274	<u>260</u>	< 0.53	<u>3.9</u>	11	NA	NPD	21,000	3,770	22
	3/19/2002	<u>2</u>	NPD	< 0.5	450	56,000	520	<u>310</u>	0	<u>3</u>	13	< 0.5	NPD	28,000	8,300	17
	4/22/2002	< 1300	NPD	< 1300	360	51,000	400	<u>250</u>	440	250^{JB}	150	< 1300	NPD	31,000	6,200	< 1300
	7/23/2002	< 630	NPD	< 630	200	31,000	280	<u>210</u>	230^{JB}	< 630	90 ^{JB}	< 630	NPD	22,000	< 630	< 630
	10/14/2004	<u>1</u>	NPD	< 0.5	210	570,000	200	<u>230^E</u>	< 0.5	<u>1.8</u>	14	< 0.5	NPD	16,000	5,100	21
	2/23/2006	< 2500	NPD	< 2500	< 2500	58,000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	4,400	4,100	< 2500
	12/20/2006	< 50	NPD	< 100	170	63,000	260	88	< 200	< 80	< 70	< 80	NPD	2,000	3,700	NA
	12/12/2007	< 500	NPD	< 980	< 600	50,000	< 790	< 780	< 1100	NA	< 530	< 850	NPD	590^J	4,900	< 1900
	3/5/2011	<u>1</u>	NPD	< 0.5	< 1300	440,000	< 1300	< 1300	< 0.5	<u>0.9</u>	10	< 0.5	NPD	9,700	4,200	11
	5/7/2011	< 100	NPD	< 130	< 120	34,000	< 100	< 100	1930	< 130	< 140	< 150	NPD	2,710	2,710	< 280
	5/8/2011	< 200	NPD	< 120	< 270	44,100	< 230	< 220	< 500	< 110	< 180	< 170	NPD	1,440	3,870	< 580
	7/22/2011	< 50	NPD	< 98	< 60	28,000	370	< 78	< 110	< 44	< 53	< 85	NPD	1,290	2,010	< 190
7/6/2016	< 125	< 125	< 60.4	< 103	24,800	<u>91.4</u>	< 125	< 58.1	< 125	< 125	< 125	< 49.3	373	2,590	< 375	
5/24/2018	< 125	< 125	< 60.4	< 103	26,300	120^J	< 125	< 58.1	< 125	< 125	< 125	< 49.3	1,210	1,390	< 375	
MW-9R DUP	3/19/2002	< 1300	NPD	< 1300	300	56,000	450	<u>270</u>	250^{JB}	< 1300	<u>280^{JB}</u>	< 1300	NPD	26,000	6,100	< 1300
	2/23/2006	< 250	NPD	< 250	170	51000^D	340	120	< 250	< 250	< 250	< 250	NPD	5,900	8,400	< 250
PZ-9	7/1/2001	<u>2</u>	NPD	NA	138	21,400	272	<u>180</u>	< 0.53	25	21	NA	NPD	21,000	3,770	18
	3/19/2002	<u>2</u>	NPD	< 0.5	490	62,000	670	<u>360</u>	0	19	14	< 0.5	NPD	82,000	4,300	10
	4/22/2002	77	NPD	< 1800	360	50,000	520	<u>230</u>	730	170	<u>200^{JB}</u>	< 1800	NPD	71,000	3,400	< 1800
	7/23/2002	< 6300	NPD	< 6300	< 6300	65,000	< 6300	< 6300	3100	< 6300	< 6300	< 6300	NPD	230,000	3,900	< 6300
	10/14/2004	<u>1</u>	NPD	< 0.5	150	42,000	180	130 ^E	< 0.5	19	18	< 0.5	NPD	62,000	2,900	9
	2/23/2006	< 2500	NPD	< 2500	< 2500	37,000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	71,000	1,900	< 2500
	12/21/2006	< 50	NPD	< 100	260	69,000	480	<u>160</u>	< 200	< 80	< 70	< 80	NPD	130,000	2,500	NA
	3/5/2011	< 6300	NPD	< 6300	< 6300	65,000	< 6300	< 6300	< 6300	< 6300	< 6300	< 6300	NPD	140,000	< 6300	< 6300
	5/7/2011	< 200	NPD	< 250	< 230	24,700	< 200	< 200	< 1000	< 250	< 270	< 290	NPD	49,700	< 340	< 560
	5/8/2011	< 400	NPD	< 240	< 540	60,000	< 450	< 430	< 1000	< 220	< 350	< 330	NPD	95,800	2,240	< 1200
	7/21/2011	< 1480	NPD	< 1960	< 1200	88,000	< 1580	< 1560	< 2200	< 880	< 1060	< 1700	NPD	114,000	3,800	< 3800
4/12/2012	< 500	NPD	< 980	< 600	97,000	< 790	< 780	< 1100	< 440	< 530	< 850	NPD	103,000	3,160	< 1900	
7/6/2016	< 500	< 500	< 242	< 410	97,700	536	< 500	< 233	< 500	< 500	< 500	< 197	79,200	5,030	< 1500	
5/24/2018	< 500	< 500	< 242	569^J	107,000	739^J	< 500	< 233	< 500	< 500	< 500	< 197	97,700	5,080	< 1500	
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	Methylen e Chloride µg/L	Tetrachlor o-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
	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
	4/2/2004	< 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
	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	< 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	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	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	NPD	< 0.32	< 0.3	< 1.2
	7/21/2011	< 0.5	NPD	< 0.98	< 0.6	1.25 ^J	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	<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	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	<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	9.1	< 0.18	< 1.5
MW-12	5/18/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	1
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.06 ^{JB}	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	0.08 ^{JB}	< 0.5	< 0.5
	7/23/2002	0	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.08 ^{JB}	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	0	3	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0	1	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
5/23/2018	< 0.50	0.54 ^J	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5	
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	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9	
5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5	
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	Methylen e Chloride µg/L	Tetrachlor o-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
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	
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
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	
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
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	Methylen e Chloride µg/L	Tetrachlor o-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-20	10/14/2004	5	NPD	< 0.5	11	1,500	11	0	< 0.5	< 0.5	4	< 0.5	NPD	110	3,400	1
	11/2/2005	2	NPD	< 0.5	5	880	25	< 0.5	< 0.5	< 0.5	2	< 0.5	NPD	83	1,100	1
	2/22/2006	< 31	NPD	< 31	< 31	1,100	< 31	< 31	< 31	< 31	< 31	< 31	NPD	34	600	< 31
	12/20/2006	1	NPD	< 1	< 0.8	290	1	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	2	270	NA
	11/1/2007	1	NPD	< 0.25	< 0.23	37	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	1	96	< 0.56
	11/1/2007 (Dup)	1	NPD	< 0.25	< 0.23	27	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	1	89	< 0.56
	11/5/2008	1	NPD	< 0.24	2	301	2	< 0.43	< 1	< 0.22	1	< 0.33	NPD	2	264	< 1.2
	7/25/2011	< 0.89 J	NPD	< 0.98	< 0.6	49	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	194	< 1.9
	4/12/2012	< 10	NPD	< 19.6	< 12	3,140	22.4 J	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	< 9.4	590	< 38
	7/6/2016	< 25	< 25	< 12.1	< 20.5	5,860	20	< 25	< 11.6	< 25	< 25	< 25	< 9.9	< 16.5	1,080	< 75
5/23/2018	< 62.5	< 62.5	< 30.2	< 51.3	6,560	< 32.1	< 62.5	< 29.1	< 62.5	< 62.5	< 62.5	< 24.7	< 41.3	966	< 188	
MW-21	10/14/2004	0	NPD	0	200	6,100	170	5	< 0.5	4	1	< 0.5	NPD	20,000	1,100	1
	11/3/2005	0	NPD	< 0.5	160	8,900	150	2	< 0.5	3	1	< 0.5	NPD	20,000	1,400	1
	2/22/2006	< 50	NPD	< 50	27	2,500	28	< 50	< 50	< 50	< 50	< 50	NPD	4,200	500	< 50
	12/20/2006	< 0.5	NPD	< 1	2	240	4	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	210	62	NA
	11/5/2007	< 1	NPD	< 1.3	4	416	7	< 1	< 5	< 1.3	< 1.4	< 1.5	NPD	94	60	< 2.8
	11/5/2008	< 0.8	NPD	< 0.48	< 1.1	101	< 0.9	< 0.86	< 2	< 0.44	< 0.7	< 0.66	NPD	125	95	< 2.3
	7/25/2011	< 25	NPD	< 49	< 30	1,890	< 39.5	< 39	< 55	< 22	< 26.5	< 42.5	NPD	228	1,720	< 95
	4/12/2012	< 10	NPD	< 19.6	< 12	1,310	20.4 J	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	1,690	560	< 38
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	65	0.79	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	9.2	31	< 1.5
5/24/2018	< 20.0	< 20.0	< 9.7	< 16.4	1,520	31.4 J	< 20.0	< 9.3	< 20.0	< 20.0	< 20.0	< 7.9	2,650	383	< 60.0	
MW-22	10/14/2004	0	NPD	0	14	1,600	16	0	< 0.5	< 0.5	0	< 0.5	NPD	320	520	< 0.5
	11/2/2005	< 63	NPD	< 63	< 63	1,800	< 63	< 63	< 63	< 63	< 63	< 63	NPD	45	1,700	< 63
	2/22/2006	< 50	NPD	< 50	< 50	3,100	15	< 50	< 50	< 50	< 50	< 50	NPD	120	2,400	< 50
	12/20/2006	< 5	NPD	< 10	22	9,700	26	< 8	< 20	< 8	< 7	< 8	NPD	100	3,200	NA
	11/2/2007	< 40	NPD	< 50	< 46	9,500	< 40	< 40	633 JB	< 50	< 54	< 58	NPD	107	3,710	< 110
	11/5/2008	< 80	NPD	< 48	< 110	14,800	< 90	< 86	< 200	< 44	< 70	< 66	NPD	231	3,690	< 230
	7/25/2011	< 25	NPD	< 49	< 30	9,800	94 J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	50 J	3,140	< 95
	4/12/2012	< 25	NPD	< 49	< 30	10,900	88 J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	37 J	2,500	< 95
	7/6/2016	< 100	< 100	< 48.3	< 82	22,600	77	< 100	< 46.5	< 100	< 100	< 100	< 39.5	< 66.1	6,930	< 300
5/24/2018	< 200	< 200	< 96.6	< 164	20,000	< 103	< 200	< 93.0	< 200	< 200	< 200	< 79.0	< 132	5,130	< 600	
MW-23	10/14/2004	4	NPD	< 0.5	266	51,000	120	25	< 0.5	1	32	< 0.5	NPD	2,500	4,000	13
	11/2/2005	< 25	NPD	< 25	99	29,000	260	< 25	< 25	< 25	19	< 25	NPD	3,000	1,900	< 25
	2/22/2006	< 1300	NPD	< 1300	< 1300	34,000	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	1,800	2,000	< 1300
	2/22/2006 (Dup)	< 1300	NPD	< 1300	< 1300	34,000	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	2,500	2,200	< 1300
	12/20/2006	< 10	NPD	< 20	44	27,000	56	< 16	< 40	< 16	< 14	< 16	NPD	32	1,100	NA
	11/2/2007	< 40	NPD	< 50	< 46	20,300	< 40	< 40	536 JB	< 50	< 54	< 58	NPD	866	2,870	< 110
	11/5/2008	< 200	NPD	< 120	< 270	23,400	< 230	< 220	< 500	< 110	80	< 170	NPD	5,370	2,390	< 580
	7/25/2011	< 50	NPD	< 98	< 60	13,100	< 79	< 78	< 110	< 44	< 53	< 85	NPD	< 47	1,490	< 190
	4/12/2012	< 50	NPD	< 98	< 60	8,400	< 79	< 78	< 100	< 44	< 53	< 85	NPD	< 47	1,200	< 190
7/6/2016	< 50	< 50	< 24.2	< 41	9,840	42	< 50	< 23.3	< 50	< 50	< 50	< 19.7	< 33.1	1,340	< 150	
5/23/2018	< 125	< 125	< 60.4	< 103	19,000	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	2,000	1,330	< 375	
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	1	1	160	40	1	1	0	400

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

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylen e Chloride µg/L	Tetrachlor o-ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-24	10/14/2004	< 0.5	NPD	< 0.5	0	<u>22</u>	0.74	0.15	< 0.5	< 0.5	0.16	< 0.5	NPD	55	2	< 0.5
	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	0.78	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	<u>1</u>	< 0.5	< 0.5
	11/2/2005 (Dup)	< 0.5	NPD	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	<u>1</u>	0	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	0.83	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	<u>2</u>	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	1	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	<u>3</u>	< 1	NA
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	1.4	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	<u>3</u>	< 0.34	< 0.56
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	0.8	< 0.45	< 0.43	< 1	< 0.22	0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>16</u>	< 0.79	< 0.78	< 1.1	< 0.44	0.53	< 0.85	NPD	14	1	< 1.9
	7/12/2012	< 0.5	NPD	< 0.98	< 0.6	2.4	< 0.79	< 0.78	< 1.1	NA	0.53	< 0.85	NPD	5	0.26^J	< 1.9
5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	3.8	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	8.5	< 0.18	< 1.5	
MW-25	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	1.4	0.17	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.1	3	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	<u>8</u>	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.49	9	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	<u>18</u>	3	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	<u>4</u>	4	NA
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	<u>10</u>	1.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	<u>2</u>	9	< 0.56
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	<u>8</u>	1.4	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	<u>3</u>	10	< 1.2
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>8</u>	1.92 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	<u>4</u>	42	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	<u>8</u>	1.94 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	<u>2</u>	37	< 1.9
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	<u>48</u>	10.0	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	77.1	1.8	< 1.5
MW-26	11/2/2005	15	NPD	< 0.5	180	7,400	<u>86</u>	< 0.5	< 0.5	<u>1</u>	3.5	< 0.5	NPD	5,600	1,500	0
	2/22/2006	< 63	NPD	< 63	31	2,100	16	< 63	< 63	< 63	< 63	< 63	NPD	930	980	< 63
	12/20/2006	<u>1</u>	NPD	< 1	<u>4</u>	210	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	120	77	NA
	11/1/2007	<u>1</u>	NPD	< 0.25	<u>3</u>	233	1.9	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	85	195	< 0.56
	11/5/2008	< 0.8	NPD	< 0.48	<u>2</u>	138	1.5	< 0.86	< 1	< 0.44	< 0.7	< 0.66	NPD	69	62	< 2.3
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>55</u>	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	7	10	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	<u>69</u>	1.4 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	26	60	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	124	1.7	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	<u>4</u>	65	< 1.5
5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	72.2	1.6	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	<u>1.8</u>	< 0.18	< 1.5	
MW-27	11/2/2005	7	NPD	< 0.5	150	27,000	190	0	< 0.5	< 0.5	7	< 0.5	NPD	< 630	3,200	5
	2/22/2006	< 630	NPD	< 630	< 630	17,000	< 630	< 630	< 630	< 630	< 630	< 630	NPD	150	2,800	< 630
	12/20/2006	< 5	NPD	< 10	36	14,000	<u>46</u>	< 8	< 20	< 8	< 7	< 8	NPD	84	860	NA
	11/1/2007	< 40	NPD	< 50	< 46	16,400	<u>67</u>	< 40	486	< 50	< 54	< 58	NPD	79	2,300	< 110
	11/5/2008	< 80	NPD	< 48	< 110	17,300	< 90	< 86	< 200	< 44	< 70	< 66	NPD	64	2,080	< 230
	7/25/2011	< 25	NPD	< 49	< 30	10,200	<u>55^J</u>	< 39	< 55	< 22	< 26.5	< 42.5	NPD	< 23.5	1,340	< 95
	4/12/2012	< 50	NPD	< 98	< 60	10,300	<u>112^J</u>	< 78	< 110	< 44	< 53	< 85	NPD	< 47	960	< 190
	7/6/2016	< 50	< 50	< 24.2	< 41	12,200	<u>54</u>	< 50	< 23.3	< 50	< 50	< 50	< 19.7	63	1,370	< 150
5/24/2018	< 100	< 100	< 48.3	< 82.0	12,000	<u>51.8^J</u>	< 100	< 46.5	< 100	< 100	< 100	< 39.5	127^J	1,310	< 300	
MW-27 DUP	12/20/2006	< 5	NPD	< 10	40	14,000	<u>45</u>	< 8	< 20	< 8	< 7	< 8	NPD	78	910	NA
	5/24/2018	< 125	< 125	< 60.4	< 103	12,600	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	151^J	1,310	< 375
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	1	1	160	40	1	1	0	400

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

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylen e Chloride µg/L	Tetrachlor o-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
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	<u>2</u>	< 0.18	< 1.5
TW-1	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
TW-2	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	1	1	160	40	1	1	0	400

Notes:

DCE - Dichloroethene

NPD - Not previously detected (historic data from prior consultants)

µg/L = micrograms per liter

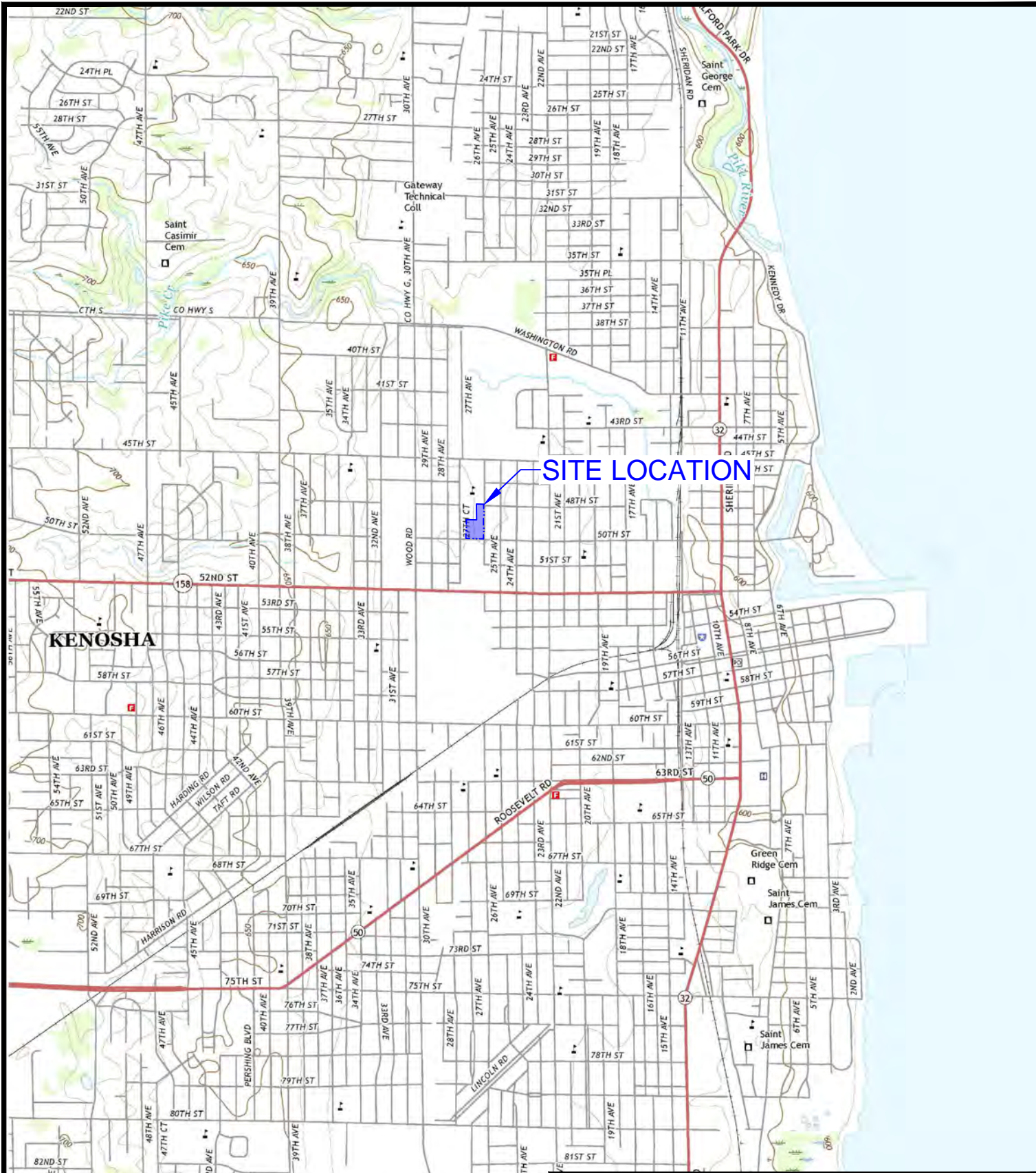
^J - Estimated concentration between reporting limit and method detection limit.

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*.

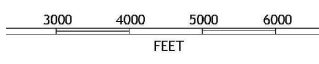
Exceedances: BOLD = concentration exceeds Chapter NR 140 PAL

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



SITE LOCATION

KENOSHA



AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080

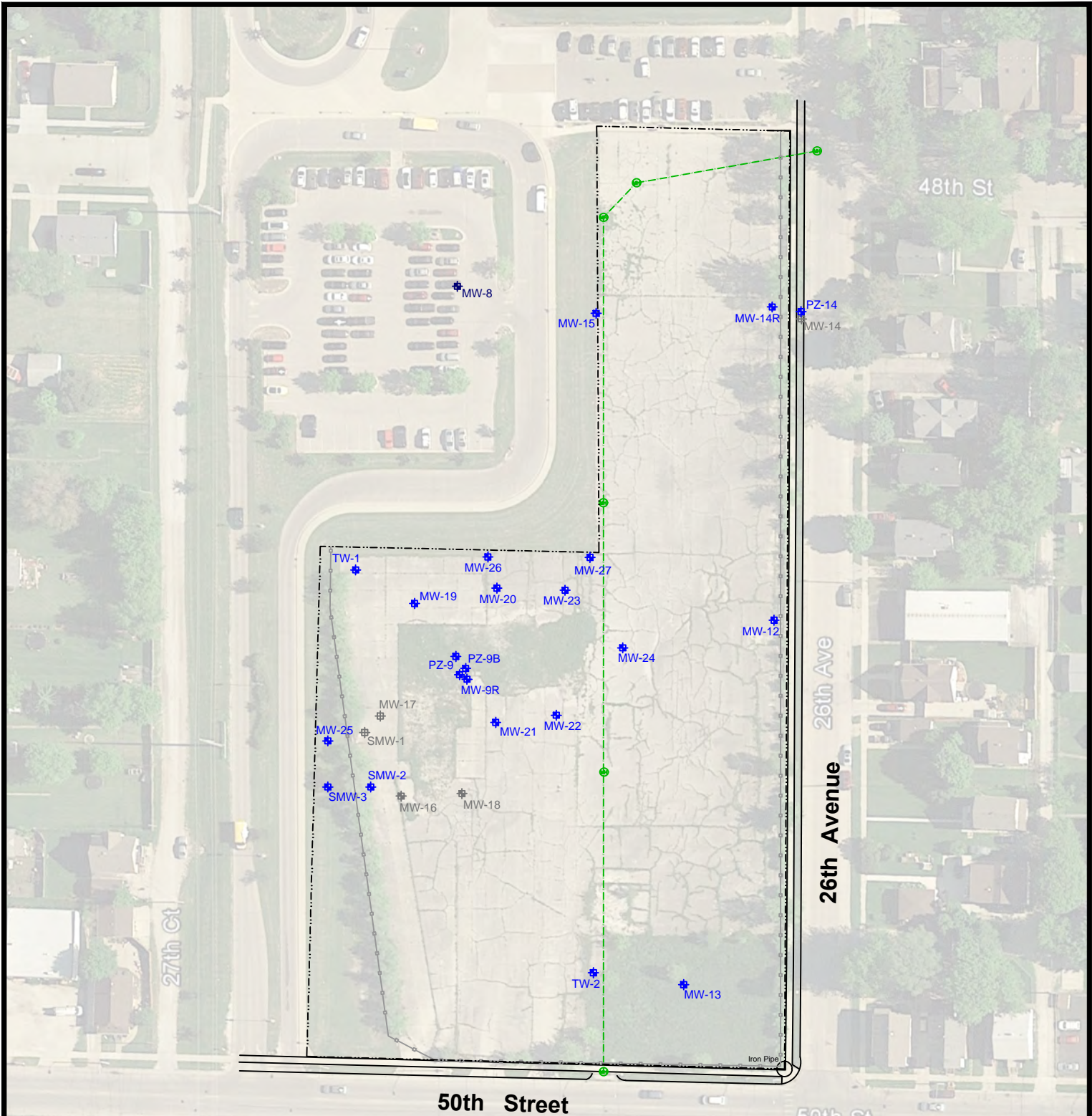
Mankowski Site
 50th Street and 26th Avenue
 Kenosha, WI

SITE LOCATION

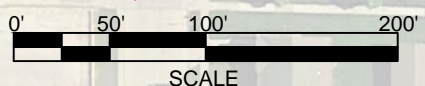
Notes:
 1. TOPO map from <http://store.usgs.gov>
 Kenosha quadrangle, dated: 2016



Project Number: 60578356	Drawn By: SAE/ANM	Date: 6/26/2018	Figure No. 1
-----------------------------	----------------------	--------------------	--------------



- 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		



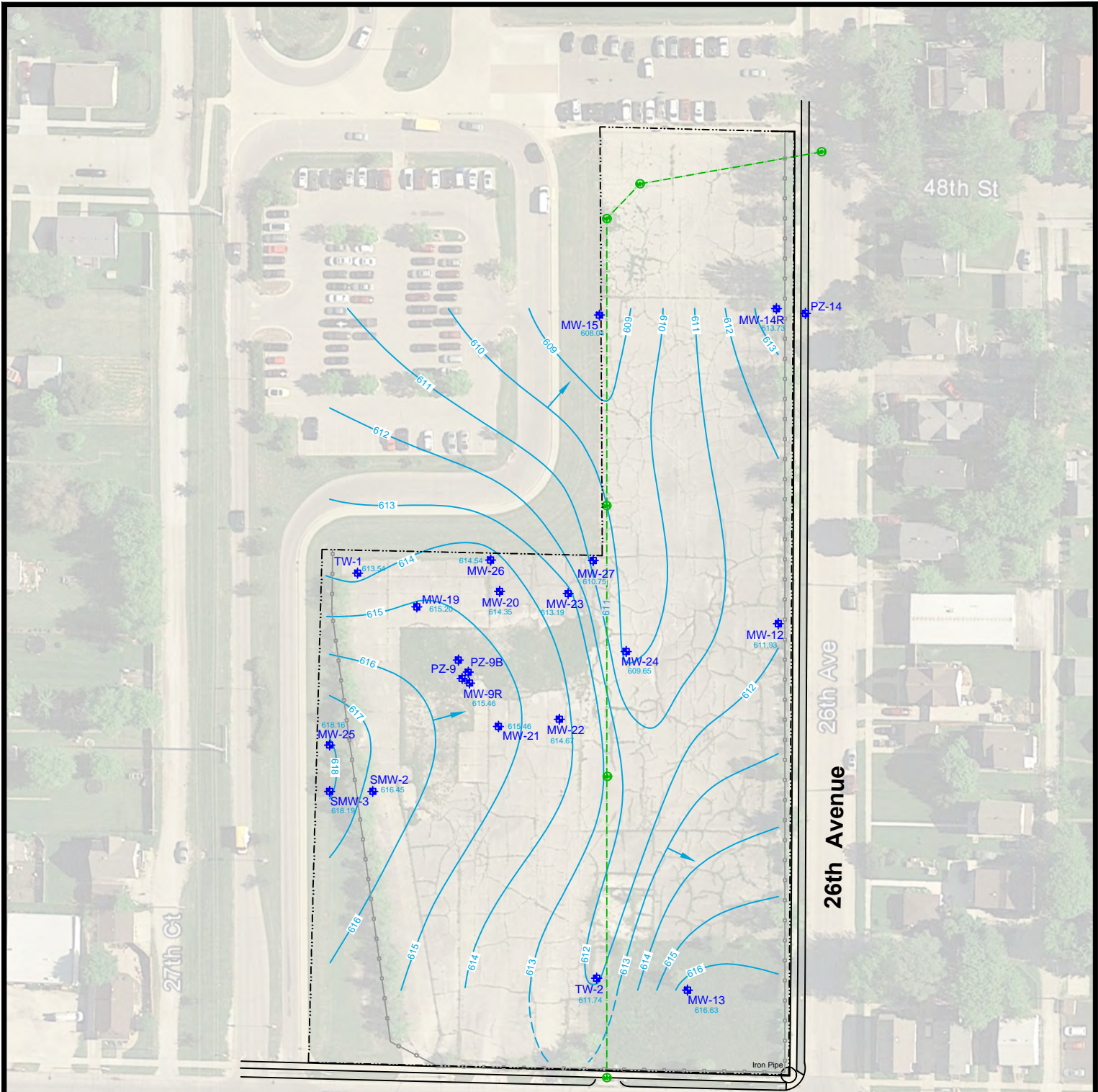
AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

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

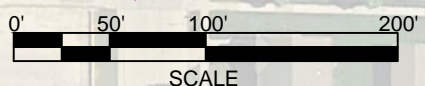
SITE LAYOUT



Project Number: 60578356	Drawn By: SAE/ANM	Date: 7/11/2018	Figure No. 2
-----------------------------	----------------------	--------------------	--------------



- 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



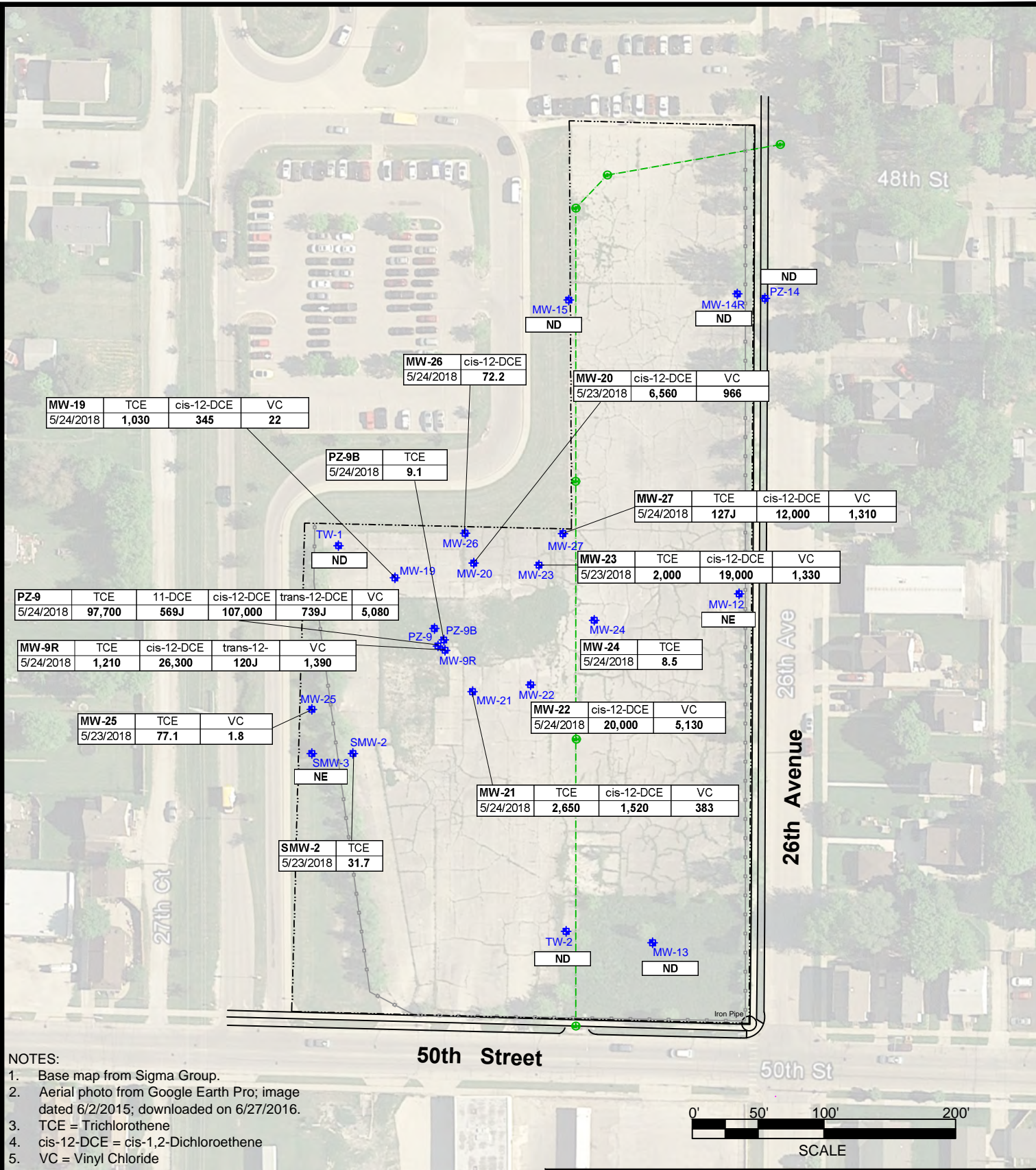
AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

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

WATER TABLE CONTOUR MAP
(MAY 2018)



Project Number: 60578356	Drawn By: SAE/ANM	Date: 7/11/2018	Figure No. 3
-----------------------------	----------------------	--------------------	--------------



- NOTES:
- Base map from Sigma Group.
 - Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.
 - TCE = Trichlorothene
 - cis-12-DCE = cis-1,2-Dichloroethene
 - VC = Vinyl Chloride

LEGEND:

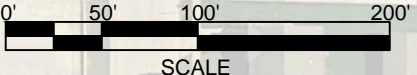
- FENCE
- PROPERTY BOUNDARY
- 78-INCH STORM SEWER
- STORM SEWER MANHOLE
- MONITORING WELL

J ESTIMATED CONCENTRATION BETWEEN REPORTING LIMIT AND METHOD DETECTION LIMIT

ND NO DETECT
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
(MAY 2018)**

Project Number: 60578356	Drawn By: SAE/ANM	Date: 7/11/2018	Figure No. 4
-----------------------------	----------------------	--------------------	--------------

May 31, 2018

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

RE: Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2018. 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



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

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

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

SAMPLE SUMMARY

Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40169860001	TRIP BLANK	Water	05/23/18 08:00	05/25/18 13:35
40169860002	MW-12	Water	05/23/18 09:47	05/25/18 13:35
40169860003	MW-13	Water	05/23/18 10:47	05/25/18 13:35
40169860004	MW-14R	Water	05/23/18 11:52	05/25/18 13:35
40169860005	PZ-14	Water	05/23/18 12:39	05/25/18 13:35
40169860006	MW-15	Water	05/23/18 13:14	05/25/18 13:35
40169860007	MW-20	Water	05/23/18 15:04	05/25/18 13:35
40169860008	MW-23	Water	05/23/18 15:31	05/25/18 13:35
40169860009	SMW-3	Water	05/23/18 16:17	05/25/18 13:35
40169860010	MW-25	Water	05/23/18 16:29	05/25/18 13:35
40169860011	TW-1	Water	05/24/18 08:15	05/25/18 13:35
40169860012	TW-2	Water	05/24/18 08:25	05/25/18 13:35
40169860013	PZ-9	Water	05/24/18 09:16	05/25/18 13:35
40169860014	MW-26	Water	05/24/18 09:32	05/25/18 13:35
40169860015	MW-24	Water	05/24/18 10:14	05/25/18 13:35
40169860016	MW-21	Water	05/24/18 10:34	05/25/18 13:35
40169860017	SMW-2	Water	05/24/18 11:03	05/25/18 13:35
40169860018	MW-22	Water	05/24/18 11:25	05/25/18 13:35
40169860019	MW-27	Water	05/24/18 12:56	05/25/18 13:35
40169860020	MW-27-DUP	Water	05/24/18 12:56	05/25/18 13:35
40169860021	MW-9R	Water	05/24/18 13:27	05/25/18 13:35
40169860022	MW-19	Water	05/24/18 13:47	05/25/18 13:35
40169860023	MW-19-DUP	Water	05/24/18 13:47	05/25/18 13:35
40169860024	PZ-9B	Water	05/24/18 14:06	05/25/18 13:35

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40169860001	TRIP BLANK	EPA 8260	MDS	63	PASI-G
40169860002	MW-12	EPA 8260	MDS	63	PASI-G
40169860003	MW-13	EPA 8260	MDS	63	PASI-G
40169860004	MW-14R	EPA 8260	MDS	63	PASI-G
40169860005	PZ-14	EPA 8260	MDS	63	PASI-G
40169860006	MW-15	EPA 8260	MDS	63	PASI-G
40169860007	MW-20	EPA 8260	MDS	63	PASI-G
40169860008	MW-23	EPA 8260	MDS	63	PASI-G
40169860009	SMW-3	EPA 8260	MDS	63	PASI-G
40169860010	MW-25	EPA 8260	MDS	63	PASI-G
40169860011	TW-1	EPA 8260	MDS	63	PASI-G
40169860012	TW-2	EPA 8260	MDS	63	PASI-G
40169860013	PZ-9	EPA 8260	MDS	63	PASI-G
40169860014	MW-26	EPA 8260	MDS	63	PASI-G
40169860015	MW-24	EPA 8260	MDS	63	PASI-G
40169860016	MW-21	EPA 8260	MDS	63	PASI-G
40169860017	SMW-2	EPA 8260	MDS	63	PASI-G
40169860018	MW-22	EPA 8260	MDS	63	PASI-G
40169860019	MW-27	EPA 8260	MDS	63	PASI-G
40169860020	MW-27-DUP	EPA 8260	MDS	63	PASI-G
40169860021	MW-9R	EPA 8260	LAP	63	PASI-G
40169860022	MW-19	EPA 8260	LAP	63	PASI-G
40169860023	MW-19-DUP	EPA 8260	LAP	63	PASI-G
40169860024	PZ-9B	EPA 8260	LAP	63	PASI-G

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40169860002	MW-12					
EPA 8260	Chloromethane	0.54J	ug/L	1.0	05/29/18 12:47	
40169860007	MW-20					
EPA 8260	cis-1,2-Dichloroethene	6560	ug/L	125	05/29/18 14:14	
EPA 8260	Vinyl chloride	966	ug/L	125	05/29/18 14:14	
40169860008	MW-23					
EPA 8260	cis-1,2-Dichloroethene	19000	ug/L	250	05/29/18 15:19	
EPA 8260	Trichloroethene	2000	ug/L	250	05/29/18 15:19	
EPA 8260	Vinyl chloride	1330	ug/L	250	05/29/18 15:19	
40169860009	SMW-3					
EPA 8260	Trichloroethene	2.0	ug/L	1.0	05/29/18 18:34	
40169860010	MW-25					
EPA 8260	cis-1,2-Dichloroethene	47.5	ug/L	1.0	05/29/18 17:51	
EPA 8260	trans-1,2-Dichloroethene	10.0	ug/L	1.0	05/29/18 17:51	
EPA 8260	Trichloroethene	77.1	ug/L	1.0	05/29/18 17:51	
EPA 8260	Vinyl chloride	1.8	ug/L	1.0	05/29/18 17:51	
40169860013	PZ-9					
EPA 8260	1,1-Dichloroethene	569J	ug/L	1000	05/29/18 15:41	
EPA 8260	cis-1,2-Dichloroethene	107000	ug/L	1000	05/29/18 15:41	
EPA 8260	trans-1,2-Dichloroethene	739J	ug/L	1000	05/29/18 15:41	
EPA 8260	Trichloroethene	97700	ug/L	1000	05/29/18 15:41	
EPA 8260	Vinyl chloride	5080	ug/L	1000	05/29/18 15:41	
40169860014	MW-26					
EPA 8260	cis-1,2-Dichloroethene	72.2	ug/L	1.0	05/30/18 10:27	
EPA 8260	trans-1,2-Dichloroethene	1.6	ug/L	1.0	05/30/18 10:27	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	05/30/18 10:27	
40169860015	MW-24					
EPA 8260	cis-1,2-Dichloroethene	3.8	ug/L	1.0	05/29/18 17:29	
EPA 8260	Trichloroethene	8.5	ug/L	1.0	05/29/18 17:29	
40169860016	MW-21					
EPA 8260	cis-1,2-Dichloroethene	1520	ug/L	40.0	05/29/18 16:46	
EPA 8260	trans-1,2-Dichloroethene	31.4J	ug/L	40.0	05/29/18 16:46	
EPA 8260	Trichloroethene	2650	ug/L	40.0	05/29/18 16:46	
EPA 8260	Vinyl chloride	383	ug/L	40.0	05/29/18 16:46	
40169860017	SMW-2					
EPA 8260	cis-1,2-Dichloroethene	50.0	ug/L	1.0	05/29/18 17:07	
EPA 8260	trans-1,2-Dichloroethene	1.3	ug/L	1.0	05/29/18 17:07	
EPA 8260	Trichloroethene	31.7	ug/L	1.0	05/29/18 17:07	
40169860018	MW-22					
EPA 8260	cis-1,2-Dichloroethene	20000	ug/L	400	05/29/18 16:02	
EPA 8260	Vinyl chloride	5130	ug/L	400	05/29/18 16:02	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40169860019	MW-27					
EPA 8260	cis-1,2-Dichloroethene	12000	ug/L	200	05/29/18 14:57	
EPA 8260	trans-1,2-Dichloroethene	51.8J	ug/L	200	05/29/18 14:57	
EPA 8260	Trichloroethene	127J	ug/L	200	05/29/18 14:57	
EPA 8260	Vinyl chloride	1310	ug/L	200	05/29/18 14:57	
40169860020	MW-27-DUP					
EPA 8260	cis-1,2-Dichloroethene	12600	ug/L	250	05/29/18 14:35	
EPA 8260	Trichloroethene	151J	ug/L	250	05/29/18 14:35	
EPA 8260	Vinyl chloride	1310	ug/L	250	05/29/18 14:35	
40169860021	MW-9R					
EPA 8260	cis-1,2-Dichloroethene	26300	ug/L	250	05/30/18 11:12	
EPA 8260	trans-1,2-Dichloroethene	120J	ug/L	250	05/30/18 11:12	
EPA 8260	Trichloroethene	1210	ug/L	250	05/30/18 11:12	
EPA 8260	Vinyl chloride	1390	ug/L	250	05/30/18 11:12	
40169860022	MW-19					
EPA 8260	1,1-Dichloroethene	5.4J	ug/L	10.0	05/30/18 11:34	
EPA 8260	cis-1,2-Dichloroethene	345	ug/L	10.0	05/30/18 11:34	
EPA 8260	trans-1,2-Dichloroethene	17.0	ug/L	10.0	05/30/18 11:34	
EPA 8260	Trichloroethene	1030	ug/L	10.0	05/30/18 11:34	
EPA 8260	Vinyl chloride	22.2	ug/L	10.0	05/30/18 11:34	
40169860023	MW-19-DUP					
EPA 8260	1,1-Dichloroethene	4.2J	ug/L	10.0	05/30/18 11:56	
EPA 8260	cis-1,2-Dichloroethene	369	ug/L	10.0	05/30/18 11:56	
EPA 8260	trans-1,2-Dichloroethene	22.3	ug/L	10.0	05/30/18 11:56	
EPA 8260	Trichloroethene	1190	ug/L	10.0	05/30/18 11:56	
EPA 8260	Vinyl chloride	26.0	ug/L	10.0	05/30/18 11:56	
40169860024	PZ-9B					
EPA 8260	cis-1,2-Dichloroethene	0.80J	ug/L	1.0	05/30/18 16:21	
EPA 8260	Trichloroethene	9.1	ug/L	1.0	05/30/18 16:21	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TRIP BLANK **Lab ID: 40169860001** Collected: 05/23/18 08:00 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:52	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 13:52	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 13:52	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:52	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 13:52	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 13:52	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 13:52	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 13:52	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 13:52	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 13:52	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 13:52	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 13:52	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 13:52	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 13:52	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 13:52	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:52	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:52	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 13:52	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 13:52	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 13:52	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:52	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:52	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 13:52	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 13:52	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 13:52	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 13:52	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:52	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TRIP BLANK **Lab ID: 40169860001** Collected: 05/23/18 08:00 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 13:52	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:52	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:52	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 13:52	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 13:52	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:52	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:52	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 13:52	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 13:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		05/29/18 13:52	460-00-4	
Dibromofluoromethane (S)	124	%	67-130		1		05/29/18 13:52	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/29/18 13:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-12 **Lab ID: 40169860002** Collected: 05/23/18 09:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 12:47	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 12:47	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 12:47	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 12:47	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 12:47	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 12:47	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 12:47	67-66-3	
Chloromethane	0.54J	ug/L	1.0	0.50	1		05/29/18 12:47	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 12:47	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 12:47	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 12:47	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 12:47	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 12:47	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 12:47	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 12:47	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 12:47	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 12:47	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 12:47	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 12:47	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 12:47	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 12:47	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 12:47	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 12:47	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 12:47	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 12:47	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 12:47	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 12:47	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 12:47	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-12 **Lab ID: 40169860002** Collected: 05/23/18 09:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 12:47	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 12:47	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 12:47	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 12:47	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 12:47	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 12:47	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:47	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 12:47	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 12:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/29/18 12:47	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		05/29/18 12:47	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/29/18 12:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-13 **Lab ID: 40169860003** Collected: 05/23/18 10:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:30	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 13:30	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 13:30	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:30	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 13:30	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 13:30	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 13:30	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 13:30	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 13:30	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 13:30	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 13:30	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 13:30	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 13:30	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 13:30	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 13:30	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:30	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:30	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 13:30	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 13:30	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 13:30	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:30	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:30	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 13:30	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 13:30	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 13:30	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 13:30	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:30	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-13 **Lab ID: 40169860003** Collected: 05/23/18 10:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 13:30	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:30	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:30	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 13:30	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 13:30	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:30	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:30	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 13:30	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 13:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/29/18 13:30	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		05/29/18 13:30	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/29/18 13:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-14R **Lab ID: 40169860004** Collected: 05/23/18 11:52 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:09	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 13:09	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 13:09	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:09	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 13:09	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 13:09	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 13:09	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 13:09	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 13:09	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 13:09	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 13:09	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 13:09	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 13:09	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 13:09	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 13:09	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:09	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 13:09	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 13:09	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 13:09	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 13:09	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 13:09	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:09	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 13:09	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 13:09	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 13:09	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 13:09	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:09	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-14R **Lab ID: 40169860004** Collected: 05/23/18 11:52 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 13:09	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 13:09	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 13:09	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 13:09	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 13:09	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 13:09	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 13:09	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 13:09	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 13:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		05/29/18 13:09	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		05/29/18 13:09	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/29/18 13:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-14 **Lab ID: 40169860005** Collected: 05/23/18 12:39 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 12:25	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 12:25	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 12:25	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 12:25	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 12:25	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 12:25	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 12:25	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 12:25	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 12:25	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 12:25	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 12:25	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 12:25	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 12:25	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 12:25	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 12:25	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 12:25	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 12:25	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 12:25	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 12:25	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 12:25	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 12:25	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 12:25	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 12:25	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 12:25	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 12:25	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 12:25	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-14 **Lab ID: 40169860005** Collected: 05/23/18 12:39 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 12:25	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 12:25	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 12:25	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 12:25	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 12:25	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 12:25	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 12:25	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 12:25	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 12:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		05/29/18 12:25	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		05/29/18 12:25	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/29/18 12:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-15 **Lab ID: 40169860006** Collected: 05/23/18 13:14 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/18 10:05	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/18 10:05	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/18 10:05	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 10:05	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/18 10:05	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/18 10:05	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/18 10:05	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/18 10:05	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/18 10:05	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/18 10:05	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/18 10:05	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/18 10:05	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/18 10:05	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/18 10:05	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/18 10:05	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/18 10:05	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/18 10:05	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/18 10:05	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/18 10:05	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/18 10:05	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/18 10:05	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/18 10:05	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/18 10:05	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/18 10:05	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/18 10:05	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/18 10:05	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/18 10:05	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-15 **Lab ID: 40169860006** Collected: 05/23/18 13:14 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/18 10:05	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/18 10:05	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 10:05	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/18 10:05	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/18 10:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/18 10:05	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:05	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/18 10:05	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/18 10:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/30/18 10:05	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		05/30/18 10:05	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/30/18 10:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-20 **Lab ID: 40169860007** Collected: 05/23/18 15:04 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	71-43-2	
Bromobenzene	<28.8	ug/L	125	28.8	125		05/29/18 14:14	108-86-1	
Bromochloromethane	<42.5	ug/L	125	42.5	125		05/29/18 14:14	74-97-5	
Bromodichloromethane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	75-27-4	
Bromoform	<62.5	ug/L	125	62.5	125		05/29/18 14:14	75-25-2	
Bromomethane	<304	ug/L	625	304	125		05/29/18 14:14	74-83-9	
n-Butylbenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	104-51-8	
sec-Butylbenzene	<273	ug/L	625	273	125		05/29/18 14:14	135-98-8	
tert-Butylbenzene	<22.5	ug/L	125	22.5	125		05/29/18 14:14	98-06-6	
Carbon tetrachloride	<62.5	ug/L	125	62.5	125		05/29/18 14:14	56-23-5	
Chlorobenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	108-90-7	
Chloroethane	<46.8	ug/L	125	46.8	125		05/29/18 14:14	75-00-3	
Chloroform	<312	ug/L	625	312	125		05/29/18 14:14	67-66-3	
Chloromethane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	74-87-3	M1
2-Chlorotoluene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	95-49-8	
4-Chlorotoluene	<26.7	ug/L	125	26.7	125		05/29/18 14:14	106-43-4	
1,2-Dibromo-3-chloropropane	<271	ug/L	625	271	125		05/29/18 14:14	96-12-8	
Dibromochloromethane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	124-48-1	
1,2-Dibromoethane (EDB)	<22.2	ug/L	125	22.2	125		05/29/18 14:14	106-93-4	
Dibromomethane	<53.3	ug/L	125	53.3	125		05/29/18 14:14	74-95-3	
1,2-Dichlorobenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	95-50-1	
1,3-Dichlorobenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	541-73-1	
1,4-Dichlorobenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	106-46-7	
Dichlorodifluoromethane	<28.0	ug/L	125	28.0	125		05/29/18 14:14	75-71-8	
1,1-Dichloroethane	<30.2	ug/L	125	30.2	125		05/29/18 14:14	75-34-3	
1,2-Dichloroethane	<21.0	ug/L	125	21.0	125		05/29/18 14:14	107-06-2	
1,1-Dichloroethene	<51.3	ug/L	125	51.3	125		05/29/18 14:14	75-35-4	
cis-1,2-Dichloroethene	6560	ug/L	125	32.0	125		05/29/18 14:14	156-59-2	
trans-1,2-Dichloroethene	<32.1	ug/L	125	32.1	125		05/29/18 14:14	156-60-5	
1,2-Dichloropropane	<29.1	ug/L	125	29.1	125		05/29/18 14:14	78-87-5	M1
1,3-Dichloropropane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	142-28-9	
2,2-Dichloropropane	<60.5	ug/L	125	60.5	125		05/29/18 14:14	594-20-7	
1,1-Dichloropropene	<55.1	ug/L	125	55.1	125		05/29/18 14:14	563-58-6	
cis-1,3-Dichloropropene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	10061-01-5	
trans-1,3-Dichloropropene	<28.7	ug/L	125	28.7	125		05/29/18 14:14	10061-02-6	
Diisopropyl ether	<62.5	ug/L	125	62.5	125		05/29/18 14:14	108-20-3	
Ethylbenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	100-41-4	
Hexachloro-1,3-butadiene	<263	ug/L	625	263	125		05/29/18 14:14	87-68-3	
Isopropylbenzene (Cumene)	<17.9	ug/L	125	17.9	125		05/29/18 14:14	98-82-8	
p-Isopropyltoluene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	99-87-6	
Methylene Chloride	<29.1	ug/L	125	29.1	125		05/29/18 14:14	75-09-2	
Methyl-tert-butyl ether	<21.8	ug/L	125	21.8	125		05/29/18 14:14	1634-04-4	
Naphthalene	<312	ug/L	625	312	125		05/29/18 14:14	91-20-3	
n-Propylbenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	103-65-1	
Styrene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	<22.6	ug/L	125	22.6	125		05/29/18 14:14	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-20 **Lab ID: 4016986007** Collected: 05/23/18 15:04 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<31.2	ug/L	125	31.2	125		05/29/18 14:14	79-34-5	
Tetrachloroethene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	127-18-4	
Toluene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	108-88-3	
1,2,3-Trichlorobenzene	<267	ug/L	625	267	125		05/29/18 14:14	87-61-6	
1,2,4-Trichlorobenzene	<276	ug/L	625	276	125		05/29/18 14:14	120-82-1	
1,1,1-Trichloroethane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	71-55-6	
1,1,2-Trichloroethane	<24.7	ug/L	125	24.7	125		05/29/18 14:14	79-00-5	
Trichloroethene	<41.3	ug/L	125	41.3	125		05/29/18 14:14	79-01-6	
Trichlorofluoromethane	<23.1	ug/L	125	23.1	125		05/29/18 14:14	75-69-4	
1,2,3-Trichloropropane	<62.5	ug/L	125	62.5	125		05/29/18 14:14	96-18-4	
1,2,4-Trimethylbenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	95-63-6	
1,3,5-Trimethylbenzene	<62.5	ug/L	125	62.5	125		05/29/18 14:14	108-67-8	
Vinyl chloride	966	ug/L	125	21.9	125		05/29/18 14:14	75-01-4	
Xylene (Total)	<188	ug/L	375	188	125		05/29/18 14:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		125		05/29/18 14:14	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		125		05/29/18 14:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130		125		05/29/18 14:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-23 **Lab ID: 40169860008** Collected: 05/23/18 15:31 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<125	ug/L	250	125	250		05/29/18 15:19	71-43-2	
Bromobenzene	<57.5	ug/L	250	57.5	250		05/29/18 15:19	108-86-1	
Bromochloromethane	<85.1	ug/L	250	85.1	250		05/29/18 15:19	74-97-5	
Bromodichloromethane	<125	ug/L	250	125	250		05/29/18 15:19	75-27-4	
Bromoform	<125	ug/L	250	125	250		05/29/18 15:19	75-25-2	
Bromomethane	<609	ug/L	1250	609	250		05/29/18 15:19	74-83-9	
n-Butylbenzene	<125	ug/L	250	125	250		05/29/18 15:19	104-51-8	
sec-Butylbenzene	<547	ug/L	1250	547	250		05/29/18 15:19	135-98-8	
tert-Butylbenzene	<45.1	ug/L	250	45.1	250		05/29/18 15:19	98-06-6	
Carbon tetrachloride	<125	ug/L	250	125	250		05/29/18 15:19	56-23-5	
Chlorobenzene	<125	ug/L	250	125	250		05/29/18 15:19	108-90-7	
Chloroethane	<93.6	ug/L	250	93.6	250		05/29/18 15:19	75-00-3	
Chloroform	<625	ug/L	1250	625	250		05/29/18 15:19	67-66-3	
Chloromethane	<125	ug/L	250	125	250		05/29/18 15:19	74-87-3	
2-Chlorotoluene	<125	ug/L	250	125	250		05/29/18 15:19	95-49-8	
4-Chlorotoluene	<53.4	ug/L	250	53.4	250		05/29/18 15:19	106-43-4	
1,2-Dibromo-3-chloropropane	<541	ug/L	1250	541	250		05/29/18 15:19	96-12-8	
Dibromochloromethane	<125	ug/L	250	125	250		05/29/18 15:19	124-48-1	
1,2-Dibromoethane (EDB)	<44.4	ug/L	250	44.4	250		05/29/18 15:19	106-93-4	
Dibromomethane	<107	ug/L	250	107	250		05/29/18 15:19	74-95-3	
1,2-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 15:19	95-50-1	
1,3-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 15:19	541-73-1	
1,4-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 15:19	106-46-7	
Dichlorodifluoromethane	<56.0	ug/L	250	56.0	250		05/29/18 15:19	75-71-8	
1,1-Dichloroethane	<60.4	ug/L	250	60.4	250		05/29/18 15:19	75-34-3	
1,2-Dichloroethane	<42.0	ug/L	250	42.0	250		05/29/18 15:19	107-06-2	
1,1-Dichloroethene	<103	ug/L	250	103	250		05/29/18 15:19	75-35-4	
cis-1,2-Dichloroethene	19000	ug/L	250	64.0	250		05/29/18 15:19	156-59-2	
trans-1,2-Dichloroethene	<64.1	ug/L	250	64.1	250		05/29/18 15:19	156-60-5	
1,2-Dichloropropane	<58.3	ug/L	250	58.3	250		05/29/18 15:19	78-87-5	
1,3-Dichloropropane	<125	ug/L	250	125	250		05/29/18 15:19	142-28-9	
2,2-Dichloropropane	<121	ug/L	250	121	250		05/29/18 15:19	594-20-7	
1,1-Dichloropropene	<110	ug/L	250	110	250		05/29/18 15:19	563-58-6	
cis-1,3-Dichloropropene	<125	ug/L	250	125	250		05/29/18 15:19	10061-01-5	
trans-1,3-Dichloropropene	<57.4	ug/L	250	57.4	250		05/29/18 15:19	10061-02-6	
Diisopropyl ether	<125	ug/L	250	125	250		05/29/18 15:19	108-20-3	
Ethylbenzene	<125	ug/L	250	125	250		05/29/18 15:19	100-41-4	
Hexachloro-1,3-butadiene	<526	ug/L	1250	526	250		05/29/18 15:19	87-68-3	
Isopropylbenzene (Cumene)	<35.8	ug/L	250	35.8	250		05/29/18 15:19	98-82-8	
p-Isopropyltoluene	<125	ug/L	250	125	250		05/29/18 15:19	99-87-6	
Methylene Chloride	<58.1	ug/L	250	58.1	250		05/29/18 15:19	75-09-2	
Methyl-tert-butyl ether	<43.6	ug/L	250	43.6	250		05/29/18 15:19	1634-04-4	
Naphthalene	<625	ug/L	1250	625	250		05/29/18 15:19	91-20-3	
n-Propylbenzene	<125	ug/L	250	125	250		05/29/18 15:19	103-65-1	
Styrene	<125	ug/L	250	125	250		05/29/18 15:19	100-42-5	
1,1,1,2-Tetrachloroethane	<45.1	ug/L	250	45.1	250		05/29/18 15:19	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-23 **Lab ID: 40169860008** Collected: 05/23/18 15:31 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<62.3	ug/L	250	62.3	250		05/29/18 15:19	79-34-5	
Tetrachloroethene	<125	ug/L	250	125	250		05/29/18 15:19	127-18-4	
Toluene	<125	ug/L	250	125	250		05/29/18 15:19	108-88-3	
1,2,3-Trichlorobenzene	<533	ug/L	1250	533	250		05/29/18 15:19	87-61-6	
1,2,4-Trichlorobenzene	<552	ug/L	1250	552	250		05/29/18 15:19	120-82-1	
1,1,1-Trichloroethane	<125	ug/L	250	125	250		05/29/18 15:19	71-55-6	
1,1,2-Trichloroethane	<49.3	ug/L	250	49.3	250		05/29/18 15:19	79-00-5	
Trichloroethene	2000	ug/L	250	82.7	250		05/29/18 15:19	79-01-6	
Trichlorofluoromethane	<46.2	ug/L	250	46.2	250		05/29/18 15:19	75-69-4	
1,2,3-Trichloropropane	<125	ug/L	250	125	250		05/29/18 15:19	96-18-4	
1,2,4-Trimethylbenzene	<125	ug/L	250	125	250		05/29/18 15:19	95-63-6	
1,3,5-Trimethylbenzene	<125	ug/L	250	125	250		05/29/18 15:19	108-67-8	
Vinyl chloride	1330	ug/L	250	43.9	250		05/29/18 15:19	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		05/29/18 15:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		250		05/29/18 15:19	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		250		05/29/18 15:19	1868-53-7	
Toluene-d8 (S)	97	%	70-130		250		05/29/18 15:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: SMW-3 **Lab ID: 40169860009** Collected: 05/23/18 16:17 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 18:34	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 18:34	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 18:34	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 18:34	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 18:34	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 18:34	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 18:34	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 18:34	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 18:34	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 18:34	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 18:34	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 18:34	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 18:34	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 18:34	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 18:34	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 18:34	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 18:34	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 18:34	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 18:34	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 18:34	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 18:34	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 18:34	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 18:34	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 18:34	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 18:34	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 18:34	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 18:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: SMW-3 **Lab ID: 4016986009** Collected: 05/23/18 16:17 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 18:34	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 18:34	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 18:34	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 18:34	79-00-5	
Trichloroethene	2.0	ug/L	1.0	0.33	1		05/29/18 18:34	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 18:34	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:34	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 18:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 18:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		05/29/18 18:34	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		05/29/18 18:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/29/18 18:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-25 **Lab ID: 40169860010** Collected: 05/23/18 16:29 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:51	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 17:51	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 17:51	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:51	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 17:51	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 17:51	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 17:51	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 17:51	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 17:51	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 17:51	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 17:51	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 17:51	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 17:51	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 17:51	75-35-4	
cis-1,2-Dichloroethene	47.5	ug/L	1.0	0.26	1		05/29/18 17:51	156-59-2	
trans-1,2-Dichloroethene	10.0	ug/L	1.0	0.26	1		05/29/18 17:51	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 17:51	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 17:51	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 17:51	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:51	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:51	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 17:51	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 17:51	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 17:51	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 17:51	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:51	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-25 **Lab ID: 40169860010** Collected: 05/23/18 16:29 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 17:51	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:51	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:51	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 17:51	79-00-5	
Trichloroethene	77.1	ug/L	1.0	0.33	1		05/29/18 17:51	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:51	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:51	108-67-8	
Vinyl chloride	1.8	ug/L	1.0	0.18	1		05/29/18 17:51	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 17:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/29/18 17:51	460-00-4	
Dibromofluoromethane (S)	120	%	67-130		1		05/29/18 17:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/29/18 17:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TW-1 **Lab ID: 40169860011** Collected: 05/24/18 08:15 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 18:56	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 18:56	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 18:56	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 18:56	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 18:56	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 18:56	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 18:56	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 18:56	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 18:56	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 18:56	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 18:56	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 18:56	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 18:56	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 18:56	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 18:56	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 18:56	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 18:56	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 18:56	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 18:56	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 18:56	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 18:56	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 18:56	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 18:56	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 18:56	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 18:56	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 18:56	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 18:56	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TW-1 **Lab ID: 40169860011** Collected: 05/24/18 08:15 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 18:56	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 18:56	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 18:56	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 18:56	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/29/18 18:56	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 18:56	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 18:56	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 18:56	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 18:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/29/18 18:56	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		05/29/18 18:56	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/29/18 18:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TW-2 **Lab ID: 40169860012** Collected: 05/24/18 08:25 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/18 13:22	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/18 13:22	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/18 13:22	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 13:22	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/18 13:22	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/18 13:22	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/18 13:22	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/18 13:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/18 13:22	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/18 13:22	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/18 13:22	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/18 13:22	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/18 13:22	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/18 13:22	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/18 13:22	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/18 13:22	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/18 13:22	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/18 13:22	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/18 13:22	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/18 13:22	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/18 13:22	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/18 13:22	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/18 13:22	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/18 13:22	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/18 13:22	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/18 13:22	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/18 13:22	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: TW-2 **Lab ID: 40169860012** Collected: 05/24/18 08:25 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/18 13:22	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/18 13:22	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 13:22	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/18 13:22	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		05/30/18 13:22	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/18 13:22	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 13:22	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/18 13:22	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/18 13:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		05/30/18 13:22	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		05/30/18 13:22	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/30/18 13:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-9 **Lab ID: 40169860013** Collected: 05/24/18 09:16 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<500	ug/L	1000	500	1000		05/29/18 15:41	71-43-2	
Bromobenzene	<230	ug/L	1000	230	1000		05/29/18 15:41	108-86-1	
Bromochloromethane	<340	ug/L	1000	340	1000		05/29/18 15:41	74-97-5	
Bromodichloromethane	<500	ug/L	1000	500	1000		05/29/18 15:41	75-27-4	
Bromoform	<500	ug/L	1000	500	1000		05/29/18 15:41	75-25-2	
Bromomethane	<2430	ug/L	5000	2430	1000		05/29/18 15:41	74-83-9	
n-Butylbenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	104-51-8	
sec-Butylbenzene	<2190	ug/L	5000	2190	1000		05/29/18 15:41	135-98-8	
tert-Butylbenzene	<180	ug/L	1000	180	1000		05/29/18 15:41	98-06-6	
Carbon tetrachloride	<500	ug/L	1000	500	1000		05/29/18 15:41	56-23-5	
Chlorobenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	108-90-7	
Chloroethane	<375	ug/L	1000	375	1000		05/29/18 15:41	75-00-3	
Chloroform	<2500	ug/L	5000	2500	1000		05/29/18 15:41	67-66-3	
Chloromethane	<500	ug/L	1000	500	1000		05/29/18 15:41	74-87-3	
2-Chlorotoluene	<500	ug/L	1000	500	1000		05/29/18 15:41	95-49-8	
4-Chlorotoluene	<214	ug/L	1000	214	1000		05/29/18 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	<2160	ug/L	5000	2160	1000		05/29/18 15:41	96-12-8	
Dibromochloromethane	<500	ug/L	1000	500	1000		05/29/18 15:41	124-48-1	
1,2-Dibromoethane (EDB)	<178	ug/L	1000	178	1000		05/29/18 15:41	106-93-4	
Dibromomethane	<427	ug/L	1000	427	1000		05/29/18 15:41	74-95-3	
1,2-Dichlorobenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	95-50-1	
1,3-Dichlorobenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	541-73-1	
1,4-Dichlorobenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	106-46-7	
Dichlorodifluoromethane	<224	ug/L	1000	224	1000		05/29/18 15:41	75-71-8	
1,1-Dichloroethane	<242	ug/L	1000	242	1000		05/29/18 15:41	75-34-3	
1,2-Dichloroethane	<168	ug/L	1000	168	1000		05/29/18 15:41	107-06-2	
1,1-Dichloroethene	569J	ug/L	1000	410	1000		05/29/18 15:41	75-35-4	
cis-1,2-Dichloroethene	107000	ug/L	1000	256	1000		05/29/18 15:41	156-59-2	
trans-1,2-Dichloroethene	739J	ug/L	1000	257	1000		05/29/18 15:41	156-60-5	
1,2-Dichloropropane	<233	ug/L	1000	233	1000		05/29/18 15:41	78-87-5	
1,3-Dichloropropane	<500	ug/L	1000	500	1000		05/29/18 15:41	142-28-9	
2,2-Dichloropropane	<484	ug/L	1000	484	1000		05/29/18 15:41	594-20-7	
1,1-Dichloropropene	<441	ug/L	1000	441	1000		05/29/18 15:41	563-58-6	
cis-1,3-Dichloropropene	<500	ug/L	1000	500	1000		05/29/18 15:41	10061-01-5	
trans-1,3-Dichloropropene	<230	ug/L	1000	230	1000		05/29/18 15:41	10061-02-6	
Diisopropyl ether	<500	ug/L	1000	500	1000		05/29/18 15:41	108-20-3	
Ethylbenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	100-41-4	
Hexachloro-1,3-butadiene	<2110	ug/L	5000	2110	1000		05/29/18 15:41	87-68-3	
Isopropylbenzene (Cumene)	<143	ug/L	1000	143	1000		05/29/18 15:41	98-82-8	
p-Isopropyltoluene	<500	ug/L	1000	500	1000		05/29/18 15:41	99-87-6	
Methylene Chloride	<233	ug/L	1000	233	1000		05/29/18 15:41	75-09-2	
Methyl-tert-butyl ether	<174	ug/L	1000	174	1000		05/29/18 15:41	1634-04-4	
Naphthalene	<2500	ug/L	5000	2500	1000		05/29/18 15:41	91-20-3	
n-Propylbenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	103-65-1	
Styrene	<500	ug/L	1000	500	1000		05/29/18 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	<181	ug/L	1000	181	1000		05/29/18 15:41	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-9 **Lab ID: 40169860013** Collected: 05/24/18 09:16 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<249	ug/L	1000	249	1000		05/29/18 15:41	79-34-5	
Tetrachloroethene	<500	ug/L	1000	500	1000		05/29/18 15:41	127-18-4	
Toluene	<500	ug/L	1000	500	1000		05/29/18 15:41	108-88-3	
1,2,3-Trichlorobenzene	<2130	ug/L	5000	2130	1000		05/29/18 15:41	87-61-6	
1,2,4-Trichlorobenzene	<2210	ug/L	5000	2210	1000		05/29/18 15:41	120-82-1	
1,1,1-Trichloroethane	<500	ug/L	1000	500	1000		05/29/18 15:41	71-55-6	
1,1,2-Trichloroethane	<197	ug/L	1000	197	1000		05/29/18 15:41	79-00-5	
Trichloroethene	97700	ug/L	1000	331	1000		05/29/18 15:41	79-01-6	
Trichlorofluoromethane	<185	ug/L	1000	185	1000		05/29/18 15:41	75-69-4	
1,2,3-Trichloropropane	<500	ug/L	1000	500	1000		05/29/18 15:41	96-18-4	
1,2,4-Trimethylbenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	95-63-6	
1,3,5-Trimethylbenzene	<500	ug/L	1000	500	1000		05/29/18 15:41	108-67-8	
Vinyl chloride	5080	ug/L	1000	176	1000		05/29/18 15:41	75-01-4	
Xylene (Total)	<1500	ug/L	3000	1500	1000		05/29/18 15:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1000		05/29/18 15:41	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1000		05/29/18 15:41	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1000		05/29/18 15:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-26 **Lab ID: 40169860014** Collected: 05/24/18 09:32 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/18 10:27	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/18 10:27	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/18 10:27	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 10:27	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/18 10:27	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/18 10:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/18 10:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/18 10:27	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/18 10:27	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/18 10:27	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/18 10:27	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/18 10:27	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/18 10:27	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/18 10:27	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/18 10:27	75-35-4	
cis-1,2-Dichloroethene	72.2	ug/L	1.0	0.26	1		05/30/18 10:27	156-59-2	
trans-1,2-Dichloroethene	1.6	ug/L	1.0	0.26	1		05/30/18 10:27	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/18 10:27	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/18 10:27	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/18 10:27	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/18 10:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/18 10:27	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/18 10:27	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/18 10:27	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/18 10:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/18 10:27	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/18 10:27	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-26 **Lab ID: 40169860014** Collected: 05/24/18 09:32 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/18 10:27	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/18 10:27	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 10:27	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/18 10:27	79-00-5	
Trichloroethene	1.8	ug/L	1.0	0.33	1		05/30/18 10:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/18 10:27	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 10:27	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/18 10:27	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/18 10:27	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		05/30/18 10:27	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		05/30/18 10:27	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/30/18 10:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-24 **Lab ID: 40169860015** Collected: 05/24/18 10:14 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:29	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 17:29	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 17:29	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:29	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 17:29	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 17:29	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 17:29	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 17:29	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 17:29	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 17:29	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 17:29	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 17:29	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 17:29	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 17:29	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 17:29	75-35-4	
cis-1,2-Dichloroethene	3.8	ug/L	1.0	0.26	1		05/29/18 17:29	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/29/18 17:29	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 17:29	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 17:29	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 17:29	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:29	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:29	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 17:29	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 17:29	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 17:29	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 17:29	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:29	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-24 **Lab ID: 40169860015** Collected: 05/24/18 10:14 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 17:29	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:29	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:29	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 17:29	79-00-5	
Trichloroethene	8.5	ug/L	1.0	0.33	1		05/29/18 17:29	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:29	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:29	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 17:29	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 17:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		05/29/18 17:29	460-00-4	
Dibromofluoromethane (S)	120	%	67-130		1		05/29/18 17:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/29/18 17:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-21 **Lab ID: 40169860016** Collected: 05/24/18 10:34 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	71-43-2	
Bromobenzene	<9.2	ug/L	40.0	9.2	40		05/29/18 16:46	108-86-1	
Bromochloromethane	<13.6	ug/L	40.0	13.6	40		05/29/18 16:46	74-97-5	
Bromodichloromethane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	75-27-4	
Bromoform	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	75-25-2	
Bromomethane	<97.4	ug/L	200	97.4	40		05/29/18 16:46	74-83-9	
n-Butylbenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	104-51-8	
sec-Butylbenzene	<87.4	ug/L	200	87.4	40		05/29/18 16:46	135-98-8	
tert-Butylbenzene	<7.2	ug/L	40.0	7.2	40		05/29/18 16:46	98-06-6	
Carbon tetrachloride	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	56-23-5	
Chlorobenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	108-90-7	
Chloroethane	<15.0	ug/L	40.0	15.0	40		05/29/18 16:46	75-00-3	
Chloroform	<100	ug/L	200	100	40		05/29/18 16:46	67-66-3	
Chloromethane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	74-87-3	
2-Chlorotoluene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	95-49-8	
4-Chlorotoluene	<8.5	ug/L	40.0	8.5	40		05/29/18 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	<86.6	ug/L	200	86.6	40		05/29/18 16:46	96-12-8	
Dibromochloromethane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<7.1	ug/L	40.0	7.1	40		05/29/18 16:46	106-93-4	
Dibromomethane	<17.1	ug/L	40.0	17.1	40		05/29/18 16:46	74-95-3	
1,2-Dichlorobenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	95-50-1	
1,3-Dichlorobenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	541-73-1	
1,4-Dichlorobenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	106-46-7	
Dichlorodifluoromethane	<9.0	ug/L	40.0	9.0	40		05/29/18 16:46	75-71-8	
1,1-Dichloroethane	<9.7	ug/L	40.0	9.7	40		05/29/18 16:46	75-34-3	
1,2-Dichloroethane	<6.7	ug/L	40.0	6.7	40		05/29/18 16:46	107-06-2	
1,1-Dichloroethene	<16.4	ug/L	40.0	16.4	40		05/29/18 16:46	75-35-4	
cis-1,2-Dichloroethene	1520	ug/L	40.0	10.2	40		05/29/18 16:46	156-59-2	
trans-1,2-Dichloroethene	31.4J	ug/L	40.0	10.3	40		05/29/18 16:46	156-60-5	
1,2-Dichloropropane	<9.3	ug/L	40.0	9.3	40		05/29/18 16:46	78-87-5	
1,3-Dichloropropane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	142-28-9	
2,2-Dichloropropane	<19.4	ug/L	40.0	19.4	40		05/29/18 16:46	594-20-7	
1,1-Dichloropropene	<17.6	ug/L	40.0	17.6	40		05/29/18 16:46	563-58-6	
cis-1,3-Dichloropropene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	10061-01-5	
trans-1,3-Dichloropropene	<9.2	ug/L	40.0	9.2	40		05/29/18 16:46	10061-02-6	
Diisopropyl ether	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	108-20-3	
Ethylbenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	100-41-4	
Hexachloro-1,3-butadiene	<84.2	ug/L	200	84.2	40		05/29/18 16:46	87-68-3	
Isopropylbenzene (Cumene)	<5.7	ug/L	40.0	5.7	40		05/29/18 16:46	98-82-8	
p-Isopropyltoluene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	99-87-6	
Methylene Chloride	<9.3	ug/L	40.0	9.3	40		05/29/18 16:46	75-09-2	
Methyl-tert-butyl ether	<7.0	ug/L	40.0	7.0	40		05/29/18 16:46	1634-04-4	
Naphthalene	<100	ug/L	200	100	40		05/29/18 16:46	91-20-3	
n-Propylbenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	103-65-1	
Styrene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	<7.2	ug/L	40.0	7.2	40		05/29/18 16:46	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-21 **Lab ID: 40169860016** Collected: 05/24/18 10:34 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<10	ug/L	40.0	10	40		05/29/18 16:46	79-34-5	
Tetrachloroethene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	127-18-4	
Toluene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	108-88-3	
1,2,3-Trichlorobenzene	<85.3	ug/L	200	85.3	40		05/29/18 16:46	87-61-6	
1,2,4-Trichlorobenzene	<88.4	ug/L	200	88.4	40		05/29/18 16:46	120-82-1	
1,1,1-Trichloroethane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	71-55-6	
1,1,2-Trichloroethane	<7.9	ug/L	40.0	7.9	40		05/29/18 16:46	79-00-5	
Trichloroethene	2650	ug/L	40.0	13.2	40		05/29/18 16:46	79-01-6	
Trichlorofluoromethane	<7.4	ug/L	40.0	7.4	40		05/29/18 16:46	75-69-4	
1,2,3-Trichloropropane	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	96-18-4	
1,2,4-Trimethylbenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	95-63-6	
1,3,5-Trimethylbenzene	<20.0	ug/L	40.0	20.0	40		05/29/18 16:46	108-67-8	
Vinyl chloride	383	ug/L	40.0	7.0	40		05/29/18 16:46	75-01-4	
Xylene (Total)	<60.0	ug/L	120	60.0	40		05/29/18 16:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		40		05/29/18 16:46	460-00-4	
Dibromofluoromethane (S)	121	%	67-130		40		05/29/18 16:46	1868-53-7	
Toluene-d8 (S)	100	%	70-130		40		05/29/18 16:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: SMW-2 **Lab ID: 40169860017** Collected: 05/24/18 11:03 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:07	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/29/18 17:07	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/29/18 17:07	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:07	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/29/18 17:07	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/29/18 17:07	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/29/18 17:07	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/29/18 17:07	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/29/18 17:07	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/29/18 17:07	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/29/18 17:07	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/29/18 17:07	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/29/18 17:07	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/29/18 17:07	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/29/18 17:07	75-35-4	
cis-1,2-Dichloroethene	50.0	ug/L	1.0	0.26	1		05/29/18 17:07	156-59-2	
trans-1,2-Dichloroethene	1.3	ug/L	1.0	0.26	1		05/29/18 17:07	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/29/18 17:07	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/29/18 17:07	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/29/18 17:07	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/29/18 17:07	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:07	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/29/18 17:07	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/29/18 17:07	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/29/18 17:07	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/29/18 17:07	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:07	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: SMW-2 **Lab ID: 40169860017** Collected: 05/24/18 11:03 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/29/18 17:07	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/29/18 17:07	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/29/18 17:07	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/29/18 17:07	79-00-5	
Trichloroethene	31.7	ug/L	1.0	0.33	1		05/29/18 17:07	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/29/18 17:07	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/29/18 17:07	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/29/18 17:07	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/29/18 17:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		05/29/18 17:07	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		05/29/18 17:07	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/29/18 17:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-22 **Lab ID: 40169860018** Collected: 05/24/18 11:25 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<200	ug/L	400	200	400		05/29/18 16:02	71-43-2	
Bromobenzene	<92.0	ug/L	400	92.0	400		05/29/18 16:02	108-86-1	
Bromochloromethane	<136	ug/L	400	136	400		05/29/18 16:02	74-97-5	
Bromodichloromethane	<200	ug/L	400	200	400		05/29/18 16:02	75-27-4	
Bromoform	<200	ug/L	400	200	400		05/29/18 16:02	75-25-2	
Bromomethane	<974	ug/L	2000	974	400		05/29/18 16:02	74-83-9	
n-Butylbenzene	<200	ug/L	400	200	400		05/29/18 16:02	104-51-8	
sec-Butylbenzene	<874	ug/L	2000	874	400		05/29/18 16:02	135-98-8	
tert-Butylbenzene	<72.1	ug/L	400	72.1	400		05/29/18 16:02	98-06-6	
Carbon tetrachloride	<200	ug/L	400	200	400		05/29/18 16:02	56-23-5	
Chlorobenzene	<200	ug/L	400	200	400		05/29/18 16:02	108-90-7	
Chloroethane	<150	ug/L	400	150	400		05/29/18 16:02	75-00-3	
Chloroform	<1000	ug/L	2000	1000	400		05/29/18 16:02	67-66-3	
Chloromethane	<200	ug/L	400	200	400		05/29/18 16:02	74-87-3	
2-Chlorotoluene	<200	ug/L	400	200	400		05/29/18 16:02	95-49-8	
4-Chlorotoluene	<85.5	ug/L	400	85.5	400		05/29/18 16:02	106-43-4	
1,2-Dibromo-3-chloropropane	<866	ug/L	2000	866	400		05/29/18 16:02	96-12-8	
Dibromochloromethane	<200	ug/L	400	200	400		05/29/18 16:02	124-48-1	
1,2-Dibromoethane (EDB)	<71.1	ug/L	400	71.1	400		05/29/18 16:02	106-93-4	
Dibromomethane	<171	ug/L	400	171	400		05/29/18 16:02	74-95-3	
1,2-Dichlorobenzene	<200	ug/L	400	200	400		05/29/18 16:02	95-50-1	
1,3-Dichlorobenzene	<200	ug/L	400	200	400		05/29/18 16:02	541-73-1	
1,4-Dichlorobenzene	<200	ug/L	400	200	400		05/29/18 16:02	106-46-7	
Dichlorodifluoromethane	<89.7	ug/L	400	89.7	400		05/29/18 16:02	75-71-8	
1,1-Dichloroethane	<96.6	ug/L	400	96.6	400		05/29/18 16:02	75-34-3	
1,2-Dichloroethane	<67.2	ug/L	400	67.2	400		05/29/18 16:02	107-06-2	
1,1-Dichloroethene	<164	ug/L	400	164	400		05/29/18 16:02	75-35-4	
cis-1,2-Dichloroethene	20000	ug/L	400	102	400		05/29/18 16:02	156-59-2	
trans-1,2-Dichloroethene	<103	ug/L	400	103	400		05/29/18 16:02	156-60-5	
1,2-Dichloropropane	<93.2	ug/L	400	93.2	400		05/29/18 16:02	78-87-5	
1,3-Dichloropropane	<200	ug/L	400	200	400		05/29/18 16:02	142-28-9	
2,2-Dichloropropane	<194	ug/L	400	194	400		05/29/18 16:02	594-20-7	
1,1-Dichloropropene	<176	ug/L	400	176	400		05/29/18 16:02	563-58-6	
cis-1,3-Dichloropropene	<200	ug/L	400	200	400		05/29/18 16:02	10061-01-5	
trans-1,3-Dichloropropene	<91.8	ug/L	400	91.8	400		05/29/18 16:02	10061-02-6	
Diisopropyl ether	<200	ug/L	400	200	400		05/29/18 16:02	108-20-3	
Ethylbenzene	<200	ug/L	400	200	400		05/29/18 16:02	100-41-4	
Hexachloro-1,3-butadiene	<842	ug/L	2000	842	400		05/29/18 16:02	87-68-3	
Isopropylbenzene (Cumene)	<57.3	ug/L	400	57.3	400		05/29/18 16:02	98-82-8	
p-Isopropyltoluene	<200	ug/L	400	200	400		05/29/18 16:02	99-87-6	
Methylene Chloride	<93.0	ug/L	400	93.0	400		05/29/18 16:02	75-09-2	
Methyl-tert-butyl ether	<69.7	ug/L	400	69.7	400		05/29/18 16:02	1634-04-4	
Naphthalene	<1000	ug/L	2000	1000	400		05/29/18 16:02	91-20-3	
n-Propylbenzene	<200	ug/L	400	200	400		05/29/18 16:02	103-65-1	
Styrene	<200	ug/L	400	200	400		05/29/18 16:02	100-42-5	
1,1,1,2-Tetrachloroethane	<72.2	ug/L	400	72.2	400		05/29/18 16:02	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-22 **Lab ID: 40169860018** Collected: 05/24/18 11:25 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<99.7	ug/L	400	99.7	400		05/29/18 16:02	79-34-5	
Tetrachloroethene	<200	ug/L	400	200	400		05/29/18 16:02	127-18-4	
Toluene	<200	ug/L	400	200	400		05/29/18 16:02	108-88-3	
1,2,3-Trichlorobenzene	<853	ug/L	2000	853	400		05/29/18 16:02	87-61-6	
1,2,4-Trichlorobenzene	<884	ug/L	2000	884	400		05/29/18 16:02	120-82-1	
1,1,1-Trichloroethane	<200	ug/L	400	200	400		05/29/18 16:02	71-55-6	
1,1,2-Trichloroethane	<79.0	ug/L	400	79.0	400		05/29/18 16:02	79-00-5	
Trichloroethene	<132	ug/L	400	132	400		05/29/18 16:02	79-01-6	
Trichlorofluoromethane	<74.0	ug/L	400	74.0	400		05/29/18 16:02	75-69-4	
1,2,3-Trichloropropane	<200	ug/L	400	200	400		05/29/18 16:02	96-18-4	
1,2,4-Trimethylbenzene	<200	ug/L	400	200	400		05/29/18 16:02	95-63-6	
1,3,5-Trimethylbenzene	<200	ug/L	400	200	400		05/29/18 16:02	108-67-8	
Vinyl chloride	5130	ug/L	400	70.2	400		05/29/18 16:02	75-01-4	
Xylene (Total)	<600	ug/L	1200	600	400		05/29/18 16:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		400		05/29/18 16:02	460-00-4	
Dibromofluoromethane (S)	120	%	67-130		400		05/29/18 16:02	1868-53-7	
Toluene-d8 (S)	97	%	70-130		400		05/29/18 16:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-27 **Lab ID: 40169860019** Collected: 05/24/18 12:56 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<100	ug/L	200	100	200		05/29/18 14:57	71-43-2	
Bromobenzene	<46.0	ug/L	200	46.0	200		05/29/18 14:57	108-86-1	
Bromochloromethane	<68.1	ug/L	200	68.1	200		05/29/18 14:57	74-97-5	
Bromodichloromethane	<100	ug/L	200	100	200		05/29/18 14:57	75-27-4	
Bromoform	<100	ug/L	200	100	200		05/29/18 14:57	75-25-2	
Bromomethane	<487	ug/L	1000	487	200		05/29/18 14:57	74-83-9	
n-Butylbenzene	<100	ug/L	200	100	200		05/29/18 14:57	104-51-8	
sec-Butylbenzene	<437	ug/L	1000	437	200		05/29/18 14:57	135-98-8	
tert-Butylbenzene	<36.1	ug/L	200	36.1	200		05/29/18 14:57	98-06-6	
Carbon tetrachloride	<100	ug/L	200	100	200		05/29/18 14:57	56-23-5	
Chlorobenzene	<100	ug/L	200	100	200		05/29/18 14:57	108-90-7	
Chloroethane	<74.9	ug/L	200	74.9	200		05/29/18 14:57	75-00-3	
Chloroform	<500	ug/L	1000	500	200		05/29/18 14:57	67-66-3	
Chloromethane	<100	ug/L	200	100	200		05/29/18 14:57	74-87-3	
2-Chlorotoluene	<100	ug/L	200	100	200		05/29/18 14:57	95-49-8	
4-Chlorotoluene	<42.7	ug/L	200	42.7	200		05/29/18 14:57	106-43-4	
1,2-Dibromo-3-chloropropane	<433	ug/L	1000	433	200		05/29/18 14:57	96-12-8	
Dibromochloromethane	<100	ug/L	200	100	200		05/29/18 14:57	124-48-1	
1,2-Dibromoethane (EDB)	<35.6	ug/L	200	35.6	200		05/29/18 14:57	106-93-4	
Dibromomethane	<85.3	ug/L	200	85.3	200		05/29/18 14:57	74-95-3	
1,2-Dichlorobenzene	<100	ug/L	200	100	200		05/29/18 14:57	95-50-1	
1,3-Dichlorobenzene	<100	ug/L	200	100	200		05/29/18 14:57	541-73-1	
1,4-Dichlorobenzene	<100	ug/L	200	100	200		05/29/18 14:57	106-46-7	
Dichlorodifluoromethane	<44.8	ug/L	200	44.8	200		05/29/18 14:57	75-71-8	
1,1-Dichloroethane	<48.3	ug/L	200	48.3	200		05/29/18 14:57	75-34-3	
1,2-Dichloroethane	<33.6	ug/L	200	33.6	200		05/29/18 14:57	107-06-2	
1,1-Dichloroethene	<82.0	ug/L	200	82.0	200		05/29/18 14:57	75-35-4	
cis-1,2-Dichloroethene	12000	ug/L	200	51.2	200		05/29/18 14:57	156-59-2	
trans-1,2-Dichloroethene	51.8J	ug/L	200	51.3	200		05/29/18 14:57	156-60-5	
1,2-Dichloropropane	<46.6	ug/L	200	46.6	200		05/29/18 14:57	78-87-5	
1,3-Dichloropropane	<100	ug/L	200	100	200		05/29/18 14:57	142-28-9	
2,2-Dichloropropane	<96.8	ug/L	200	96.8	200		05/29/18 14:57	594-20-7	
1,1-Dichloropropene	<88.2	ug/L	200	88.2	200		05/29/18 14:57	563-58-6	
cis-1,3-Dichloropropene	<100	ug/L	200	100	200		05/29/18 14:57	10061-01-5	
trans-1,3-Dichloropropene	<45.9	ug/L	200	45.9	200		05/29/18 14:57	10061-02-6	
Diisopropyl ether	<100	ug/L	200	100	200		05/29/18 14:57	108-20-3	
Ethylbenzene	<100	ug/L	200	100	200		05/29/18 14:57	100-41-4	
Hexachloro-1,3-butadiene	<421	ug/L	1000	421	200		05/29/18 14:57	87-68-3	
Isopropylbenzene (Cumene)	<28.7	ug/L	200	28.7	200		05/29/18 14:57	98-82-8	
p-Isopropyltoluene	<100	ug/L	200	100	200		05/29/18 14:57	99-87-6	
Methylene Chloride	<46.5	ug/L	200	46.5	200		05/29/18 14:57	75-09-2	
Methyl-tert-butyl ether	<34.8	ug/L	200	34.8	200		05/29/18 14:57	1634-04-4	
Naphthalene	<500	ug/L	1000	500	200		05/29/18 14:57	91-20-3	
n-Propylbenzene	<100	ug/L	200	100	200		05/29/18 14:57	103-65-1	
Styrene	<100	ug/L	200	100	200		05/29/18 14:57	100-42-5	
1,1,1,2-Tetrachloroethane	<36.1	ug/L	200	36.1	200		05/29/18 14:57	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-27 **Lab ID: 40169860019** Collected: 05/24/18 12:56 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<49.9	ug/L	200	49.9	200		05/29/18 14:57	79-34-5	
Tetrachloroethene	<100	ug/L	200	100	200		05/29/18 14:57	127-18-4	
Toluene	<100	ug/L	200	100	200		05/29/18 14:57	108-88-3	
1,2,3-Trichlorobenzene	<427	ug/L	1000	427	200		05/29/18 14:57	87-61-6	
1,2,4-Trichlorobenzene	<442	ug/L	1000	442	200		05/29/18 14:57	120-82-1	
1,1,1-Trichloroethane	<100	ug/L	200	100	200		05/29/18 14:57	71-55-6	
1,1,2-Trichloroethane	<39.5	ug/L	200	39.5	200		05/29/18 14:57	79-00-5	
Trichloroethene	127J	ug/L	200	66.1	200		05/29/18 14:57	79-01-6	
Trichlorofluoromethane	<37.0	ug/L	200	37.0	200		05/29/18 14:57	75-69-4	
1,2,3-Trichloropropane	<100	ug/L	200	100	200		05/29/18 14:57	96-18-4	
1,2,4-Trimethylbenzene	<100	ug/L	200	100	200		05/29/18 14:57	95-63-6	
1,3,5-Trimethylbenzene	<100	ug/L	200	100	200		05/29/18 14:57	108-67-8	
Vinyl chloride	1310	ug/L	200	35.1	200		05/29/18 14:57	75-01-4	
Xylene (Total)	<300	ug/L	600	300	200		05/29/18 14:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		200		05/29/18 14:57	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		200		05/29/18 14:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130		200		05/29/18 14:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-27-DUP Lab ID: 40169860020 Collected: 05/24/18 12:56 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<125	ug/L	250	125	250		05/29/18 14:35	71-43-2	
Bromobenzene	<57.5	ug/L	250	57.5	250		05/29/18 14:35	108-86-1	
Bromochloromethane	<85.1	ug/L	250	85.1	250		05/29/18 14:35	74-97-5	
Bromodichloromethane	<125	ug/L	250	125	250		05/29/18 14:35	75-27-4	
Bromoform	<125	ug/L	250	125	250		05/29/18 14:35	75-25-2	
Bromomethane	<609	ug/L	1250	609	250		05/29/18 14:35	74-83-9	
n-Butylbenzene	<125	ug/L	250	125	250		05/29/18 14:35	104-51-8	
sec-Butylbenzene	<547	ug/L	1250	547	250		05/29/18 14:35	135-98-8	
tert-Butylbenzene	<45.1	ug/L	250	45.1	250		05/29/18 14:35	98-06-6	
Carbon tetrachloride	<125	ug/L	250	125	250		05/29/18 14:35	56-23-5	
Chlorobenzene	<125	ug/L	250	125	250		05/29/18 14:35	108-90-7	
Chloroethane	<93.6	ug/L	250	93.6	250		05/29/18 14:35	75-00-3	
Chloroform	<625	ug/L	1250	625	250		05/29/18 14:35	67-66-3	
Chloromethane	<125	ug/L	250	125	250		05/29/18 14:35	74-87-3	
2-Chlorotoluene	<125	ug/L	250	125	250		05/29/18 14:35	95-49-8	
4-Chlorotoluene	<53.4	ug/L	250	53.4	250		05/29/18 14:35	106-43-4	
1,2-Dibromo-3-chloropropane	<541	ug/L	1250	541	250		05/29/18 14:35	96-12-8	
Dibromochloromethane	<125	ug/L	250	125	250		05/29/18 14:35	124-48-1	
1,2-Dibromoethane (EDB)	<44.4	ug/L	250	44.4	250		05/29/18 14:35	106-93-4	
Dibromomethane	<107	ug/L	250	107	250		05/29/18 14:35	74-95-3	
1,2-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 14:35	95-50-1	
1,3-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 14:35	541-73-1	
1,4-Dichlorobenzene	<125	ug/L	250	125	250		05/29/18 14:35	106-46-7	
Dichlorodifluoromethane	<56.0	ug/L	250	56.0	250		05/29/18 14:35	75-71-8	
1,1-Dichloroethane	<60.4	ug/L	250	60.4	250		05/29/18 14:35	75-34-3	
1,2-Dichloroethane	<42.0	ug/L	250	42.0	250		05/29/18 14:35	107-06-2	
1,1-Dichloroethene	<103	ug/L	250	103	250		05/29/18 14:35	75-35-4	
cis-1,2-Dichloroethene	12600	ug/L	250	64.0	250		05/29/18 14:35	156-59-2	
trans-1,2-Dichloroethene	<64.1	ug/L	250	64.1	250		05/29/18 14:35	156-60-5	
1,2-Dichloropropane	<58.3	ug/L	250	58.3	250		05/29/18 14:35	78-87-5	
1,3-Dichloropropane	<125	ug/L	250	125	250		05/29/18 14:35	142-28-9	
2,2-Dichloropropane	<121	ug/L	250	121	250		05/29/18 14:35	594-20-7	
1,1-Dichloropropene	<110	ug/L	250	110	250		05/29/18 14:35	563-58-6	
cis-1,3-Dichloropropene	<125	ug/L	250	125	250		05/29/18 14:35	10061-01-5	
trans-1,3-Dichloropropene	<57.4	ug/L	250	57.4	250		05/29/18 14:35	10061-02-6	
Diisopropyl ether	<125	ug/L	250	125	250		05/29/18 14:35	108-20-3	
Ethylbenzene	<125	ug/L	250	125	250		05/29/18 14:35	100-41-4	
Hexachloro-1,3-butadiene	<526	ug/L	1250	526	250		05/29/18 14:35	87-68-3	
Isopropylbenzene (Cumene)	<35.8	ug/L	250	35.8	250		05/29/18 14:35	98-82-8	
p-Isopropyltoluene	<125	ug/L	250	125	250		05/29/18 14:35	99-87-6	
Methylene Chloride	<58.1	ug/L	250	58.1	250		05/29/18 14:35	75-09-2	
Methyl-tert-butyl ether	<43.6	ug/L	250	43.6	250		05/29/18 14:35	1634-04-4	
Naphthalene	<625	ug/L	1250	625	250		05/29/18 14:35	91-20-3	
n-Propylbenzene	<125	ug/L	250	125	250		05/29/18 14:35	103-65-1	
Styrene	<125	ug/L	250	125	250		05/29/18 14:35	100-42-5	
1,1,1,2-Tetrachloroethane	<45.1	ug/L	250	45.1	250		05/29/18 14:35	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-27-DUP **Lab ID: 40169860020** Collected: 05/24/18 12:56 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<62.3	ug/L	250	62.3	250		05/29/18 14:35	79-34-5	
Tetrachloroethene	<125	ug/L	250	125	250		05/29/18 14:35	127-18-4	
Toluene	<125	ug/L	250	125	250		05/29/18 14:35	108-88-3	
1,2,3-Trichlorobenzene	<533	ug/L	1250	533	250		05/29/18 14:35	87-61-6	
1,2,4-Trichlorobenzene	<552	ug/L	1250	552	250		05/29/18 14:35	120-82-1	
1,1,1-Trichloroethane	<125	ug/L	250	125	250		05/29/18 14:35	71-55-6	
1,1,2-Trichloroethane	<49.3	ug/L	250	49.3	250		05/29/18 14:35	79-00-5	
Trichloroethene	151J	ug/L	250	82.7	250		05/29/18 14:35	79-01-6	
Trichlorofluoromethane	<46.2	ug/L	250	46.2	250		05/29/18 14:35	75-69-4	
1,2,3-Trichloropropane	<125	ug/L	250	125	250		05/29/18 14:35	96-18-4	
1,2,4-Trimethylbenzene	<125	ug/L	250	125	250		05/29/18 14:35	95-63-6	
1,3,5-Trimethylbenzene	<125	ug/L	250	125	250		05/29/18 14:35	108-67-8	
Vinyl chloride	1310	ug/L	250	43.9	250		05/29/18 14:35	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		05/29/18 14:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		250		05/29/18 14:35	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		250		05/29/18 14:35	1868-53-7	
Toluene-d8 (S)	97	%	70-130		250		05/29/18 14:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-9R **Lab ID: 40169860021** Collected: 05/24/18 13:27 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<125	ug/L	250	125	250		05/30/18 11:12	71-43-2	
Bromobenzene	<57.5	ug/L	250	57.5	250		05/30/18 11:12	108-86-1	
Bromochloromethane	<85.1	ug/L	250	85.1	250		05/30/18 11:12	74-97-5	
Bromodichloromethane	<125	ug/L	250	125	250		05/30/18 11:12	75-27-4	
Bromoform	<125	ug/L	250	125	250		05/30/18 11:12	75-25-2	
Bromomethane	<609	ug/L	1250	609	250		05/30/18 11:12	74-83-9	
n-Butylbenzene	<125	ug/L	250	125	250		05/30/18 11:12	104-51-8	
sec-Butylbenzene	<547	ug/L	1250	547	250		05/30/18 11:12	135-98-8	
tert-Butylbenzene	<45.1	ug/L	250	45.1	250		05/30/18 11:12	98-06-6	
Carbon tetrachloride	<125	ug/L	250	125	250		05/30/18 11:12	56-23-5	
Chlorobenzene	<125	ug/L	250	125	250		05/30/18 11:12	108-90-7	
Chloroethane	<93.6	ug/L	250	93.6	250		05/30/18 11:12	75-00-3	
Chloroform	<625	ug/L	1250	625	250		05/30/18 11:12	67-66-3	
Chloromethane	<125	ug/L	250	125	250		05/30/18 11:12	74-87-3	
2-Chlorotoluene	<125	ug/L	250	125	250		05/30/18 11:12	95-49-8	
4-Chlorotoluene	<53.4	ug/L	250	53.4	250		05/30/18 11:12	106-43-4	
1,2-Dibromo-3-chloropropane	<541	ug/L	1250	541	250		05/30/18 11:12	96-12-8	
Dibromochloromethane	<125	ug/L	250	125	250		05/30/18 11:12	124-48-1	
1,2-Dibromoethane (EDB)	<44.4	ug/L	250	44.4	250		05/30/18 11:12	106-93-4	
Dibromomethane	<107	ug/L	250	107	250		05/30/18 11:12	74-95-3	
1,2-Dichlorobenzene	<125	ug/L	250	125	250		05/30/18 11:12	95-50-1	
1,3-Dichlorobenzene	<125	ug/L	250	125	250		05/30/18 11:12	541-73-1	
1,4-Dichlorobenzene	<125	ug/L	250	125	250		05/30/18 11:12	106-46-7	
Dichlorodifluoromethane	<56.0	ug/L	250	56.0	250		05/30/18 11:12	75-71-8	
1,1-Dichloroethane	<60.4	ug/L	250	60.4	250		05/30/18 11:12	75-34-3	
1,2-Dichloroethane	<42.0	ug/L	250	42.0	250		05/30/18 11:12	107-06-2	
1,1-Dichloroethene	<103	ug/L	250	103	250		05/30/18 11:12	75-35-4	
cis-1,2-Dichloroethene	26300	ug/L	250	64.0	250		05/30/18 11:12	156-59-2	
trans-1,2-Dichloroethene	120J	ug/L	250	64.1	250		05/30/18 11:12	156-60-5	
1,2-Dichloropropane	<58.3	ug/L	250	58.3	250		05/30/18 11:12	78-87-5	
1,3-Dichloropropane	<125	ug/L	250	125	250		05/30/18 11:12	142-28-9	
2,2-Dichloropropane	<121	ug/L	250	121	250		05/30/18 11:12	594-20-7	
1,1-Dichloropropene	<110	ug/L	250	110	250		05/30/18 11:12	563-58-6	
cis-1,3-Dichloropropene	<125	ug/L	250	125	250		05/30/18 11:12	10061-01-5	
trans-1,3-Dichloropropene	<57.4	ug/L	250	57.4	250		05/30/18 11:12	10061-02-6	
Diisopropyl ether	<125	ug/L	250	125	250		05/30/18 11:12	108-20-3	
Ethylbenzene	<125	ug/L	250	125	250		05/30/18 11:12	100-41-4	
Hexachloro-1,3-butadiene	<526	ug/L	1250	526	250		05/30/18 11:12	87-68-3	
Isopropylbenzene (Cumene)	<35.8	ug/L	250	35.8	250		05/30/18 11:12	98-82-8	
p-Isopropyltoluene	<125	ug/L	250	125	250		05/30/18 11:12	99-87-6	
Methylene Chloride	<58.1	ug/L	250	58.1	250		05/30/18 11:12	75-09-2	
Methyl-tert-butyl ether	<43.6	ug/L	250	43.6	250		05/30/18 11:12	1634-04-4	
Naphthalene	<625	ug/L	1250	625	250		05/30/18 11:12	91-20-3	
n-Propylbenzene	<125	ug/L	250	125	250		05/30/18 11:12	103-65-1	
Styrene	<125	ug/L	250	125	250		05/30/18 11:12	100-42-5	
1,1,1,2-Tetrachloroethane	<45.1	ug/L	250	45.1	250		05/30/18 11:12	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-9R **Lab ID: 40169860021** Collected: 05/24/18 13:27 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<62.3	ug/L	250	62.3	250		05/30/18 11:12	79-34-5	
Tetrachloroethene	<125	ug/L	250	125	250		05/30/18 11:12	127-18-4	
Toluene	<125	ug/L	250	125	250		05/30/18 11:12	108-88-3	
1,2,3-Trichlorobenzene	<533	ug/L	1250	533	250		05/30/18 11:12	87-61-6	
1,2,4-Trichlorobenzene	<552	ug/L	1250	552	250		05/30/18 11:12	120-82-1	
1,1,1-Trichloroethane	<125	ug/L	250	125	250		05/30/18 11:12	71-55-6	
1,1,2-Trichloroethane	<49.3	ug/L	250	49.3	250		05/30/18 11:12	79-00-5	
Trichloroethene	1210	ug/L	250	82.7	250		05/30/18 11:12	79-01-6	
Trichlorofluoromethane	<46.2	ug/L	250	46.2	250		05/30/18 11:12	75-69-4	
1,2,3-Trichloropropane	<125	ug/L	250	125	250		05/30/18 11:12	96-18-4	
1,2,4-Trimethylbenzene	<125	ug/L	250	125	250		05/30/18 11:12	95-63-6	
1,3,5-Trimethylbenzene	<125	ug/L	250	125	250		05/30/18 11:12	108-67-8	
Vinyl chloride	1390	ug/L	250	43.9	250		05/30/18 11:12	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		05/30/18 11:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		250		05/30/18 11:12	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		250		05/30/18 11:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		250		05/30/18 11:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-19 **Lab ID: 40169860022** Collected: 05/24/18 13:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		05/30/18 11:34	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		05/30/18 11:34	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		05/30/18 11:34	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		05/30/18 11:34	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		05/30/18 11:34	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		05/30/18 11:34	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		05/30/18 11:34	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		05/30/18 11:34	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		05/30/18 11:34	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		05/30/18 11:34	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		05/30/18 11:34	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		05/30/18 11:34	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		05/30/18 11:34	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		05/30/18 11:34	107-06-2	
1,1-Dichloroethene	5.4J	ug/L	10.0	4.1	10		05/30/18 11:34	75-35-4	
cis-1,2-Dichloroethene	345	ug/L	10.0	2.6	10		05/30/18 11:34	156-59-2	
trans-1,2-Dichloroethene	17.0	ug/L	10.0	2.6	10		05/30/18 11:34	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		05/30/18 11:34	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		05/30/18 11:34	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		05/30/18 11:34	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		05/30/18 11:34	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		05/30/18 11:34	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		05/30/18 11:34	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		05/30/18 11:34	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		05/30/18 11:34	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		05/30/18 11:34	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		05/30/18 11:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-19 **Lab ID: 40169860022** Collected: 05/24/18 13:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		05/30/18 11:34	79-34-5	
Tetrachloroethene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		05/30/18 11:34	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		05/30/18 11:34	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		05/30/18 11:34	79-00-5	
Trichloroethene	1030	ug/L	10.0	3.3	10		05/30/18 11:34	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		05/30/18 11:34	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:34	108-67-8	
Vinyl chloride	22.2	ug/L	10.0	1.8	10		05/30/18 11:34	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		05/30/18 11:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		10		05/30/18 11:34	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		10		05/30/18 11:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		10		05/30/18 11:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-19-DUP **Lab ID: 40169860023** Collected: 05/24/18 13:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		05/30/18 11:56	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		05/30/18 11:56	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	75-25-2	
Bromomethane	<24.3	ug/L	50.0	24.3	10		05/30/18 11:56	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		05/30/18 11:56	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		05/30/18 11:56	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		05/30/18 11:56	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		05/30/18 11:56	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		05/30/18 11:56	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		05/30/18 11:56	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		05/30/18 11:56	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		05/30/18 11:56	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		05/30/18 11:56	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		05/30/18 11:56	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		05/30/18 11:56	107-06-2	
1,1-Dichloroethene	4.2J	ug/L	10.0	4.1	10		05/30/18 11:56	75-35-4	
cis-1,2-Dichloroethene	369	ug/L	10.0	2.6	10		05/30/18 11:56	156-59-2	
trans-1,2-Dichloroethene	22.3	ug/L	10.0	2.6	10		05/30/18 11:56	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		05/30/18 11:56	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		05/30/18 11:56	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		05/30/18 11:56	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		05/30/18 11:56	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		05/30/18 11:56	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		05/30/18 11:56	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		05/30/18 11:56	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		05/30/18 11:56	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		05/30/18 11:56	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		05/30/18 11:56	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: MW-19-DUP **Lab ID: 40169860023** Collected: 05/24/18 13:47 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		05/30/18 11:56	79-34-5	
Tetrachloroethene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		05/30/18 11:56	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		05/30/18 11:56	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		05/30/18 11:56	79-00-5	
Trichloroethene	1190	ug/L	10.0	3.3	10		05/30/18 11:56	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		05/30/18 11:56	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		05/30/18 11:56	108-67-8	
Vinyl chloride	26.0	ug/L	10.0	1.8	10		05/30/18 11:56	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		05/30/18 11:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		10		05/30/18 11:56	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		10		05/30/18 11:56	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		05/30/18 11:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-9B **Lab ID: 40169860024** Collected: 05/24/18 14:06 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		05/30/18 16:21	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		05/30/18 16:21	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		05/30/18 16:21	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 16:21	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		05/30/18 16:21	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		05/30/18 16:21	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		05/30/18 16:21	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		05/30/18 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		05/30/18 16:21	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		05/30/18 16:21	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		05/30/18 16:21	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		05/30/18 16:21	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		05/30/18 16:21	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		05/30/18 16:21	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		05/30/18 16:21	75-35-4	
cis-1,2-Dichloroethene	0.80J	ug/L	1.0	0.26	1		05/30/18 16:21	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		05/30/18 16:21	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		05/30/18 16:21	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		05/30/18 16:21	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		05/30/18 16:21	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		05/30/18 16:21	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		05/30/18 16:21	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		05/30/18 16:21	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		05/30/18 16:21	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/30/18 16:21	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/30/18 16:21	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		05/30/18 16:21	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Sample: PZ-9B **Lab ID: 40169860024** Collected: 05/24/18 14:06 Received: 05/25/18 13:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		05/30/18 16:21	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		05/30/18 16:21	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		05/30/18 16:21	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		05/30/18 16:21	79-00-5	
Trichloroethene	9.1	ug/L	1.0	0.33	1		05/30/18 16:21	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		05/30/18 16:21	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/30/18 16:21	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		05/30/18 16:21	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/30/18 16:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		05/30/18 16:21	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		05/30/18 16:21	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/30/18 16:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40169860

QC Batch: 290194 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40169860001, 40169860002, 40169860003, 40169860004, 40169860005, 40169860006, 40169860007, 40169860008, 40169860009, 40169860010, 40169860011, 40169860012, 40169860013, 40169860014, 40169860015, 40169860016, 40169860017, 40169860018, 40169860019, 40169860020

METHOD BLANK: 1698499 Matrix: Water
Associated Lab Samples: 40169860001, 40169860002, 40169860003, 40169860004, 40169860005, 40169860006, 40169860007, 40169860008, 40169860009, 40169860010, 40169860011, 40169860012, 40169860013, 40169860014, 40169860015, 40169860016, 40169860017, 40169860018, 40169860019, 40169860020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/29/18 10:15	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/29/18 10:15	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/29/18 10:15	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/29/18 10:15	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/29/18 10:15	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/29/18 10:15	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/29/18 10:15	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/29/18 10:15	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/29/18 10:15	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/29/18 10:15	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/29/18 10:15	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/29/18 10:15	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/29/18 10:15	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/29/18 10:15	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/29/18 10:15	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/29/18 10:15	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/29/18 10:15	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/29/18 10:15	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/29/18 10:15	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/29/18 10:15	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/29/18 10:15	
2-Chlorotoluene	ug/L	<0.50	1.0	05/29/18 10:15	
4-Chlorotoluene	ug/L	<0.21	1.0	05/29/18 10:15	
Benzene	ug/L	<0.50	1.0	05/29/18 10:15	
Bromobenzene	ug/L	<0.23	1.0	05/29/18 10:15	
Bromochloromethane	ug/L	<0.34	1.0	05/29/18 10:15	
Bromodichloromethane	ug/L	<0.50	1.0	05/29/18 10:15	
Bromoform	ug/L	<0.50	1.0	05/29/18 10:15	
Bromomethane	ug/L	<2.4	5.0	05/29/18 10:15	
Carbon tetrachloride	ug/L	<0.50	1.0	05/29/18 10:15	
Chlorobenzene	ug/L	<0.50	1.0	05/29/18 10:15	
Chloroethane	ug/L	<0.37	1.0	05/29/18 10:15	
Chloroform	ug/L	<2.5	5.0	05/29/18 10:15	
Chloromethane	ug/L	<0.50	1.0	05/29/18 10:15	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/29/18 10:15	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/29/18 10:15	
Dibromochloromethane	ug/L	<0.50	1.0	05/29/18 10:15	
Dibromomethane	ug/L	<0.43	1.0	05/29/18 10:15	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

METHOD BLANK: 1698499

Matrix: Water

Associated Lab Samples: 40169860001, 40169860002, 40169860003, 40169860004, 40169860005, 40169860006, 40169860007, 40169860008, 40169860009, 40169860010, 40169860011, 40169860012, 40169860013, 40169860014, 40169860015, 40169860016, 40169860017, 40169860018, 40169860019, 40169860020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/29/18 10:15	
Diisopropyl ether	ug/L	<0.50	1.0	05/29/18 10:15	
Ethylbenzene	ug/L	<0.50	1.0	05/29/18 10:15	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/29/18 10:15	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/29/18 10:15	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/29/18 10:15	
Methylene Chloride	ug/L	<0.23	1.0	05/29/18 10:15	
n-Butylbenzene	ug/L	<0.50	1.0	05/29/18 10:15	
n-Propylbenzene	ug/L	<0.50	1.0	05/29/18 10:15	
Naphthalene	ug/L	<2.5	5.0	05/29/18 10:15	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/29/18 10:15	
sec-Butylbenzene	ug/L	<2.2	5.0	05/29/18 10:15	
Styrene	ug/L	<0.50	1.0	05/29/18 10:15	
tert-Butylbenzene	ug/L	<0.18	1.0	05/29/18 10:15	
Tetrachloroethene	ug/L	<0.50	1.0	05/29/18 10:15	
Toluene	ug/L	<0.50	1.0	05/29/18 10:15	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/29/18 10:15	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/29/18 10:15	
Trichloroethene	ug/L	<0.33	1.0	05/29/18 10:15	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/29/18 10:15	
Vinyl chloride	ug/L	<0.18	1.0	05/29/18 10:15	
Xylene (Total)	ug/L	<1.5	3.0	05/29/18 10:15	
4-Bromofluorobenzene (S)	%	90	61-130	05/29/18 10:15	
Dibromofluoromethane (S)	%	114	67-130	05/29/18 10:15	
Toluene-d8 (S)	%	99	70-130	05/29/18 10:15	

LABORATORY CONTROL SAMPLE: 1698500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	61.5	123	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.6	107	70-130	
1,1,2-Trichloroethane	ug/L	50	54.3	109	70-130	
1,1-Dichloroethane	ug/L	50	64.6	129	71-132	
1,1-Dichloroethene	ug/L	50	57.4	115	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.8	102	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	54.2	108	70-130	
1,2-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,2-Dichloroethane	ug/L	50	59.8	120	70-131	
1,2-Dichloropropane	ug/L	50	59.8	120	80-120	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	54.0	108	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

LABORATORY CONTROL SAMPLE: 1698500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.6	111	73-145	
Bromodichloromethane	ug/L	50	61.6	123	70-130	
Bromoform	ug/L	50	54.2	108	67-130	
Bromomethane	ug/L	50	41.3	83	26-128	
Carbon tetrachloride	ug/L	50	63.8	128	70-133	
Chlorobenzene	ug/L	50	54.9	110	70-130	
Chloroethane	ug/L	50	51.6	103	58-120	
Chloroform	ug/L	50	59.2	118	80-121	
Chloromethane	ug/L	50	48.4	97	40-127	
cis-1,2-Dichloroethene	ug/L	50	54.3	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.9	92	70-130	
Dibromochloromethane	ug/L	50	57.9	116	70-130	
Dichlorodifluoromethane	ug/L	50	46.5	93	20-135	
Ethylbenzene	ug/L	50	58.0	116	87-129	
Isopropylbenzene (Cumene)	ug/L	50	58.2	116	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	66-143	
Methylene Chloride	ug/L	50	49.9	100	70-130	
Styrene	ug/L	50	59.0	118	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	54.5	109	82-130	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	70-130	
Trichloroethene	ug/L	50	57.6	115	70-130	
Trichlorofluoromethane	ug/L	50	59.8	120	76-133	
Vinyl chloride	ug/L	50	50.1	100	57-136	
Xylene (Total)	ug/L	150	176	117	70-130	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			112	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698561 1698562

Parameter	Units	40169860007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<62.5	10000	10000	12300	12400	123	124	70-134	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<31.2	10000	10000	10600	10300	106	103	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<24.7	10000	10000	10700	10500	107	105	70-130	2	20		
1,1-Dichloroethane	ug/L	<30.2	10000	10000	11700	11500	117	115	71-133	2	20		
1,1-Dichloroethene	ug/L	<51.3	10000	10000	11700	11900	117	119	75-136	2	20		
1,2,4-Trichlorobenzene	ug/L	<276	10000	10000	9700	9370	97	94	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<271	10000	10000	11300	10800	113	108	63-123	4	20		
1,2-Dibromoethane (EDB)	ug/L	<22.2	10000	10000	11200	10500	112	105	70-130	7	20		
1,2-Dichlorobenzene	ug/L	<62.5	10000	10000	10400	10000	104	100	70-130	4	20		
1,2-Dichloroethane	ug/L	<21.0	10000	10000	12000	12600	120	126	70-131	4	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1698561		1698562									
Parameter	Units	40169860007	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
1,2-Dichloropropane	ug/L	<29.1	10000	10000	12300	12000	123	120	80-120	2	20	M1	
1,3-Dichlorobenzene	ug/L	<62.5	10000	10000	10200	9860	102	99	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<62.5	10000	10000	10700	10300	107	103	70-130	4	20		
Benzene	ug/L	<62.5	10000	10000	11400	11600	114	116	73-145	2	20		
Bromodichloromethane	ug/L	<62.5	10000	10000	12200	12300	122	123	70-130	1	20		
Bromoform	ug/L	<62.5	10000	10000	10600	10400	106	104	67-130	2	20		
Bromomethane	ug/L	<304	10000	10000	11400	11900	114	119	26-129	4	20		
Carbon tetrachloride	ug/L	<62.5	10000	10000	13000	12900	130	129	70-134	1	20		
Chlorobenzene	ug/L	<62.5	10000	10000	10900	10700	109	107	70-130	3	20		
Chloroethane	ug/L	<46.8	10000	10000	10400	11500	104	115	58-120	10	20		
Chloroform	ug/L	<312	10000	10000	11700	11700	117	117	80-121	0	20		
Chloromethane	ug/L	<62.5	10000	10000	11500	12900	115	129	40-128	11	20	M1	
cis-1,2-Dichloroethene	ug/L	6560	10000	10000	17400	16800	108	102	70-130	4	20		
cis-1,3-Dichloropropene	ug/L	<62.5	10000	10000	9890	10200	99	102	70-130	3	20		
Dibromochloromethane	ug/L	<62.5	10000	10000	11500	11000	115	110	70-130	5	20		
Dichlorodifluoromethane	ug/L	<28.0	10000	10000	9660	9330	97	93	20-146	4	20		
Ethylbenzene	ug/L	<62.5	10000	10000	11600	11200	116	112	87-129	4	20		
Isopropylbenzene (Cumene)	ug/L	<17.9	10000	10000	11700	11400	117	114	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<21.8	10000	10000	10800	11400	108	114	66-143	6	20		
Methylene Chloride	ug/L	<29.1	10000	10000	10700	10700	107	107	70-130	0	20		
Styrene	ug/L	<62.5	10000	10000	11800	11600	118	116	70-130	1	20		
Tetrachloroethene	ug/L	<62.5	10000	10000	10200	10100	102	101	70-130	1	20		
Toluene	ug/L	<62.5	10000	10000	10800	10500	108	105	82-131	3	20		
trans-1,2-Dichloroethene	ug/L	<32.1	10000	10000	10900	11500	109	115	75-135	5	20		
trans-1,3-Dichloropropene	ug/L	<28.7	10000	10000	9520	9890	95	99	70-130	4	20		
Trichloroethene	ug/L	<41.3	10000	10000	11700	11700	117	117	70-130	0	20		
Trichlorofluoromethane	ug/L	<23.1	10000	10000	12500	12800	125	128	76-150	3	20		
Vinyl chloride	ug/L	966	10000	10000	11700	11600	108	107	56-143	1	20		
Xylene (Total)	ug/L	<188	30000	30000	34500	34000	115	113	70-130	2	20		
4-Bromofluorobenzene (S)	%						103	103	61-130				
Dibromofluoromethane (S)	%						111	111	67-130				
Toluene-d8 (S)	%						100	97	70-130				

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

QC Batch: 290195 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40169860021, 40169860022, 40169860023, 40169860024

METHOD BLANK: 1698501 Matrix: Water
Associated Lab Samples: 40169860021, 40169860022, 40169860023, 40169860024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	05/30/18 07:21	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/30/18 07:21	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	05/30/18 07:21	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/30/18 07:21	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/30/18 07:21	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/30/18 07:21	
1,1-Dichloropropene	ug/L	<0.44	1.0	05/30/18 07:21	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	05/30/18 07:21	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	05/30/18 07:21	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	05/30/18 07:21	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/30/18 07:21	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	05/30/18 07:21	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	05/30/18 07:21	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	05/30/18 07:21	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/30/18 07:21	
1,2-Dichloropropane	ug/L	<0.23	1.0	05/30/18 07:21	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/30/18 07:21	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	05/30/18 07:21	
1,3-Dichloropropane	ug/L	<0.50	1.0	05/30/18 07:21	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	05/30/18 07:21	
2,2-Dichloropropane	ug/L	<0.48	1.0	05/30/18 07:21	
2-Chlorotoluene	ug/L	<0.50	1.0	05/30/18 07:21	
4-Chlorotoluene	ug/L	<0.21	1.0	05/30/18 07:21	
Benzene	ug/L	<0.50	1.0	05/30/18 07:21	
Bromobenzene	ug/L	<0.23	1.0	05/30/18 07:21	
Bromochloromethane	ug/L	<0.34	1.0	05/30/18 07:21	
Bromodichloromethane	ug/L	<0.50	1.0	05/30/18 07:21	
Bromoform	ug/L	<0.50	1.0	05/30/18 07:21	
Bromomethane	ug/L	<2.4	5.0	05/30/18 07:21	
Carbon tetrachloride	ug/L	<0.50	1.0	05/30/18 07:21	
Chlorobenzene	ug/L	<0.50	1.0	05/30/18 07:21	
Chloroethane	ug/L	<0.37	1.0	05/30/18 07:21	
Chloroform	ug/L	<2.5	5.0	05/30/18 07:21	
Chloromethane	ug/L	<0.50	1.0	05/30/18 07:21	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/18 07:21	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	05/30/18 07:21	
Dibromochloromethane	ug/L	<0.50	1.0	05/30/18 07:21	
Dibromomethane	ug/L	<0.43	1.0	05/30/18 07:21	
Dichlorodifluoromethane	ug/L	<0.22	1.0	05/30/18 07:21	
Diisopropyl ether	ug/L	<0.50	1.0	05/30/18 07:21	
Ethylbenzene	ug/L	<0.50	1.0	05/30/18 07:21	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

METHOD BLANK: 1698501

Matrix: Water

Associated Lab Samples: 40169860021, 40169860022, 40169860023, 40169860024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	05/30/18 07:21	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	05/30/18 07:21	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/30/18 07:21	
Methylene Chloride	ug/L	<0.23	1.0	05/30/18 07:21	
n-Butylbenzene	ug/L	<0.50	1.0	05/30/18 07:21	
n-Propylbenzene	ug/L	<0.50	1.0	05/30/18 07:21	
Naphthalene	ug/L	<2.5	5.0	05/30/18 07:21	
p-Isopropyltoluene	ug/L	<0.50	1.0	05/30/18 07:21	
sec-Butylbenzene	ug/L	<2.2	5.0	05/30/18 07:21	
Styrene	ug/L	<0.50	1.0	05/30/18 07:21	
tert-Butylbenzene	ug/L	<0.18	1.0	05/30/18 07:21	
Tetrachloroethene	ug/L	<0.50	1.0	05/30/18 07:21	
Toluene	ug/L	<0.50	1.0	05/30/18 07:21	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/18 07:21	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	05/30/18 07:21	
Trichloroethene	ug/L	<0.33	1.0	05/30/18 07:21	
Trichlorofluoromethane	ug/L	<0.18	1.0	05/30/18 07:21	
Vinyl chloride	ug/L	<0.18	1.0	05/30/18 07:21	
Xylene (Total)	ug/L	<1.5	3.0	05/30/18 07:21	
4-Bromofluorobenzene (S)	%	85	61-130	05/30/18 07:21	
Dibromofluoromethane (S)	%	97	67-130	05/30/18 07:21	
Toluene-d8 (S)	%	100	70-130	05/30/18 07:21	

LABORATORY CONTROL SAMPLE: 1698502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1-Dichloroethane	ug/L	50	54.7	109	71-132	
1,1-Dichloroethene	ug/L	50	59.3	119	75-130	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.6	107	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	54.2	108	70-131	
1,2-Dichloropropane	ug/L	50	52.2	104	80-120	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.9	108	70-130	
Benzene	ug/L	50	50.2	100	73-145	
Bromodichloromethane	ug/L	50	54.0	108	70-130	
Bromoform	ug/L	50	61.2	122	67-130	
Bromomethane	ug/L	50	42.6	85	26-128	
Carbon tetrachloride	ug/L	50	56.8	114	70-133	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

LABORATORY CONTROL SAMPLE: 1698502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	56.9	114	70-130	
Chloroethane	ug/L	50	46.6	93	58-120	
Chloroform	ug/L	50	54.3	109	80-121	
Chloromethane	ug/L	50	47.7	95	40-127	
cis-1,2-Dichloroethene	ug/L	50	54.6	109	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.5	107	70-130	
Dibromochloromethane	ug/L	50	57.2	114	70-130	
Dichlorodifluoromethane	ug/L	50	52.3	105	20-135	
Ethylbenzene	ug/L	50	55.4	111	87-129	
Isopropylbenzene (Cumene)	ug/L	50	57.5	115	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	66-143	
Methylene Chloride	ug/L	50	53.9	108	70-130	
Styrene	ug/L	50	56.7	113	70-130	
Tetrachloroethene	ug/L	50	58.2	116	70-130	
Toluene	ug/L	50	55.2	110	82-130	
trans-1,2-Dichloroethene	ug/L	50	55.9	112	75-132	
trans-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Trichloroethene	ug/L	50	56.9	114	70-130	
Trichlorofluoromethane	ug/L	50	64.1	128	76-133	
Vinyl chloride	ug/L	50	51.4	103	57-136	
Xylene (Total)	ug/L	150	173	115	70-130	
4-Bromofluorobenzene (S)	%			96	61-130	
Dibromofluoromethane (S)	%			97	67-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698921 1698922

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40169810007	Spike Conc.	MSD Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.1	55.9	110	112	70-134	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	50.0	51.6	100	103	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.7	54.5	101	109	70-130	7	20		
1,1-Dichloroethane	ug/L	<0.24	50	50	52.0	54.4	104	109	71-133	5	20		
1,1-Dichloroethene	ug/L	<0.41	50	50	57.8	59.6	116	119	75-136	3	20		
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	48.4	46.0	97	92	70-130	5	20		
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	56.1	52.1	112	104	63-123	7	20		
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	51.9	54.8	104	110	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<0.50	50	50	53.0	53.1	106	106	70-130	0	20		
1,2-Dichloroethane	ug/L	<0.17	50	50	52.5	54.5	105	109	70-131	4	20		
1,2-Dichloropropane	ug/L	<0.23	50	50	50.4	52.0	101	104	80-120	3	20		
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.8	50.9	102	102	70-130	0	20		
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.5	52.7	103	105	70-130	2	20		
Benzene	ug/L	<0.50	50	50	47.7	48.8	95	98	73-145	2	20		
Bromodichloromethane	ug/L	<0.50	50	50	53.8	54.9	108	110	70-130	2	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1698921		1698922		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40169810007 Result	MS Spike Conc.	MSD Spike Conc.								
Bromoform	ug/L	<0.50	50	50	58.8	61.4	118	123	67-130	4	20	
Bromomethane	ug/L	<2.4	50	50	43.7	45.1	87	90	26-129	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	54.7	58.1	109	116	70-134	6	20	
Chlorobenzene	ug/L	<0.50	50	50	54.1	57.0	108	114	70-130	5	20	
Chloroethane	ug/L	<0.37	50	50	45.3	46.7	91	93	58-120	3	20	
Chloroform	ug/L	<2.5	50	50	50.8	53.8	102	108	80-121	6	20	
Chloromethane	ug/L	<0.50	50	50	44.7	45.9	89	92	40-128	3	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.1	49.2	92	98	70-130	7	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	54.2	53.8	108	108	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	55.8	57.7	112	115	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	50.1	52.1	100	104	20-146	4	20	
Ethylbenzene	ug/L	<0.50	50	50	53.1	54.5	106	109	87-129	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.2	56.8	110	114	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.9	51.8	100	104	66-143	4	20	
Methylene Chloride	ug/L	<0.23	50	50	51.2	51.9	102	104	70-130	1	20	
Styrene	ug/L	<0.50	50	50	54.5	55.5	109	111	70-130	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	56.1	60.1	112	120	70-130	7	20	
Toluene	ug/L	<0.50	50	50	53.4	54.6	107	109	82-131	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	52.5	54.7	105	109	75-135	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	52.3	53.0	105	106	70-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	55.2	55.8	110	112	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	63.0	64.7	126	129	76-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	51.2	51.5	102	103	56-143	1	20	
Xylene (Total)	ug/L	<1.5	150	150	169	174	113	116	70-130	3	20	
4-Bromofluorobenzene (S)	%						100	100	61-130			
Dibromofluoromethane (S)	%						97	96	67-130			
Toluene-d8 (S)	%						96	97	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

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 and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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

WORKORDER QUALIFIERS

WO: 40169860

[1] Revised report per client to correct client ID for two samples that were switched in the field(013 & 024). IDs have been updated as PZ-9 for 40169860013 and PZ-9B for 40169860024.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60578356 MANKOWSKI

Pace Project No.: 40169860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40169860001	TRIP BLANK	EPA 8260	290194		
40169860002	MW-12	EPA 8260	290194		
40169860003	MW-13	EPA 8260	290194		
40169860004	MW-14R	EPA 8260	290194		
40169860005	PZ-14	EPA 8260	290194		
40169860006	MW-15	EPA 8260	290194		
40169860007	MW-20	EPA 8260	290194		
40169860008	MW-23	EPA 8260	290194		
40169860009	SMW-3	EPA 8260	290194		
40169860010	MW-25	EPA 8260	290194		
40169860011	TW-1	EPA 8260	290194		
40169860012	TW-2	EPA 8260	290194		
40169860013	PZ-9	EPA 8260	290194		
40169860014	MW-26	EPA 8260	290194		
40169860015	MW-24	EPA 8260	290194		
40169860016	MW-21	EPA 8260	290194		
40169860017	SMW-2	EPA 8260	290194		
40169860018	MW-22	EPA 8260	290194		
40169860019	MW-27	EPA 8260	290194		
40169860020	MW-27-DUP	EPA 8260	290194		
40169860021	MW-9R	EPA 8260	290195		
40169860022	MW-19	EPA 8260	290195		
40169860023	MW-19-DUP	EPA 8260	290195		
40169860024	PZ-9B	EPA 8260	290195		

REPORT OF LABORATORY ANALYSIS

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

Sample Preservation Receipt Form

Client Name: AELOM Project # 40169860

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

Lab Lot# of pH paper:

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


Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	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	BP3C 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:

 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#: 40169860

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



Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: ROD / Corr: _____

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

Person examining contents:
 Date: 5/25/18
 Initials: [Signature]

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

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>[Signature]</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>399</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 5/29/18

Memorandum

Date: June 14, 2018

To: Lanette Altenbach, Project Manager (PG)

From: Lisa Smith, Environmental Chemist (CEAC)

Subject: Data Validation - Analytical Groundwater Results for May 2018
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

SUMMARY

Data validation was performed on the analytical results of the groundwater samples collected for volatile organic compounds (VOCs) as listed in Table 1 below. The samples were collected at the Kenosha WI site on May 24 and 25, 2018. Groundwater samples were submitted to Pace Analytical, Green Bay for analysis. Pace processed the samples and reported the results under sample delivery group (SDG) 40169860.

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

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

METHODS

The samples were analyzed by the methods listed below.

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

SAMPLES

The samples included in this review are listed below.

Table 1 - Sample Summary
Kenosha Mankowski Property Groundwater Samples

Field ID	QC	Date Sampled	Laboratory ID	Analyses
Groundwater Samples:				
MW-9R		5/24/2018	40169860021	VOCs
PZ-9		5/24/2018	40169860013	VOCs
PZ-9B		5/24/2018	40169860024	VOCs
MW-12		5/23/2018	40169860002	VOCs
MW-13		5/23/2018	40169860003	VOCs
MW-14R		5/23/2018	40169860004	VOCs
PZ-14		5/23/2018	40169860005	VOCs
MW-15		5/23/2018	40169860006	VOCs
MW-19		5/24/2018	40169860022	VOCs
MW-19-DUP	Field Duplicate of MW-19	5/24/2018	40169860023	VOCs
MW-20	MS/MSD	5/23/2018	40169860007	VOCs
MW-21		5/24/2018	40169860016	VOCs
MW-22		5/24/2018	40169860018	VOCs
MW-23		5/23/2018	40169860008	VOCs
MW-24		5/24/2018	40169860015	VOCs
MW-25		5/23/2018	40169860010	VOCs
MW-26		5/24/2018	40169860014	VOCs
MW-27		5/24/2018	40169860019	VOCs
MW-27-DUP	Field Duplicate of MW-27	5/24/2018	40169860020	VOCs
SMW-2		5/24/2018	40169860017	VOCs
SMW-3		5/23/2018	40169860009	VOCs
TW-1		5/24/2018	40169860011	VOCs
TW-2		5/24/2018	40169860012	VOCs
Field QC Blanks:				
TRIP BLANK		5/23/2018	40169860001	VOCs

REVIEW ELEMENTS

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

Limited Validation

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

DISCUSSION

Sample Receipt

Samples were received at the laboratory intact, properly preserved and in good condition. The groundwater samples were received on ice. It was determined that samples PZ-9 and PZ-9B were switched in the field. The chain of custody (CoC) was updated, and the laboratory correctly documented the update in the qualifier section.

Holding Times

Samples were analyzed within holding time.

Method Blanks

Laboratory blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Compounds were not detected in the associated method blanks.

Trip Blanks

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

Surrogate Recoveries

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

Laboratory Control Samples (LCSs)

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

Matrix Spike/Matrix Spike Duplicates (MS/MSDs)

MS/MSDs are analyzed to determine the effects of sample matrix on the measurement methodology. MS/MSD data were provided from batch analysis. Sample MW-20 was analyzed as an MS/MSD as indicated in Table 1. MS/MSD recoveries were within the laboratory specified QC limits, with the exception of those identified in bold in the table below. Relative percent differences (RPDs) were within the laboratory specified QC limits.

Sample Spiked	Compound	MS/MSD Recovery	Recovery Limits	Results Qualified
MW-20	1,2-Dichloropropane	123/120	80-120	The results for MW-20 were nondetect and were acceptable without qualification.
	Chloromethane	115/129	40-128	

Quantitation

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

Field Duplicates

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

Field Duplicate Results

Compound	Units	LOQ	Sample Concentration	Field Duplicate Concentration	RPD (%)
MW-19/MW-19-DUP:					
1,1-Dichloroethene	ug/L	10.0	5.4 J	4.2 J	25
cis-1,2-Dichloroethene	ug/L	10.0	345	369	6.7
trans-1,2-Dichloroethene	ug/L	10.0	17.0	22.3	27.0
Trichloroethene	ug/L	10.0	1030	1190	14.4
Vinyl chloride	ug/L	10.0	22.2	26	15.8
MW-27/MW-27-DUP:					
cis-1,2-Dichloroethene	ug/L	200	12000	12600	4.9
trans-1,2-Dichloroethene	ug/L	200	51.8 J	<64.1	--
Trichloroethene	ug/L	200	127 J	151 J	17.3
Vinyl chloride	ug/L	200	1310	1310	0.0