

October 18, 2019

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

**Subject: August 2019 Groundwater Sampling Summary
Former Gas Station, 704 75th, Kenosha, Wisconsin
BRRTS # 03-30-532981**

Dear Ms. Billingsley,

AECOM conducted the third of four groundwater sampling events on August 14, 2019 as part of the quarterly groundwater monitoring plan for 2019 at the former gas station located at 704 75th St in Kenosha, WI (Property). The sampling was conducted as described in Task Order 136-011619 for the City of Kenosha (authorized January 24, 2019). The purpose of this letter is to transmit the results of the August 2019 sampling event.

Site History

The Property is approximately 0.35 acres located at 704 75th Street, at the intersection of 75th Street and 7th Avenue in Kenosha, WI. The Property was formerly a gas station and convenience store. The Property is bordered to the north and west by residential properties, to the south across 75th Street by a convenience store, and to the east across 7th Avenue by a dentist office. The site location is depicted in Figure 1.

The Property previously had five underground storage tanks (USTs), one was removed in 2001 and the remaining four were removed in 2014. Following the tank removals, a site investigation was performed and a report dated November 2018 described the results of soil and groundwater sampling. Petroleum impact to soil above residual contaminant levels (RCLs) was observed at the water table (9-10' bgs [below ground surface]) but was not found in shallower soil samples (0-4' bgs). Additionally, petroleum impacts were detected in groundwater above the PAL (preventative action limit). Groundwater monitoring is being conducted to further evaluate the identified groundwater impact.

Groundwater Sampling

During the August 2019 sampling event, all four of the groundwater monitoring wells were sampled. The observation well (TP-OBS) located near the east Property boundary was not sampled during this time. Figure 2 depicts the site layout and monitoring well locations.

Prior to sample collection, depth to groundwater measurements were collected from the monitoring wells. Depth to groundwater measurements and calculated elevations are provided in Table 1. Groundwater samples were then collected from the monitoring wells using a new disposable bailer at each location. Wells were purged dry (3-5 gallons) and allowed to recover prior to sampling. Purge water was disposed in a local sanitary sewer. Field parameters, including pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature, were measured directly at the time the well was sampled. The field parameter measurements are included in Table 2.

Groundwater samples from the 4 wells were submitted to Pace Analytical Services, Inc. (Pace), in Green Bay, Wisconsin, and analyzed for volatile organic compounds (VOCs - SW846 Method 8260B) and polycyclic aromatic hydrocarbons (PAHs - SW846 Method 8270C SIM).

Groundwater Results

Contoured groundwater elevations from the August 2019 measurements depict groundwater flow to the east-southeast toward Lake Michigan (Figure 3). The observed flow direction remains consistent with the flow direction determined by AECOM in prior sampling events.

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.

Groundwater analytical concentrations detected in the August 2019 sampling event are lower than the February and May 2019 detected groundwater concentrations. Preventive Action Limit (PAL) or Enforcement Standard (ES) exceedances were not detected in monitoring wells MW-1, MW-3 or MW-4. MW-4 had a PAL and an ES exceedance in February 2019 that were no longer detected in May or August 2019. Down gradient well MW-2 had the fewest PAL and ES exceedances compared to earlier in 2019, and all detected analytes decreased significantly. The only ES exceedance in August 2019 was benzene in MW-2 and the only PAL exceedance was methyl-tert-butyl ether (MTBE) in MW-2.

Conclusions

The overall groundwater plume appears to be decreasing although there was still an ES and PAL exceedance in one of the four monitoring wells (MW-2). Further evaluation will be conducted with the next groundwater sampling event to confirm the decreasing trend.

Please contact us if you have questions about this letter.

Yours sincerely,

AECOM Technical Services, Inc.



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In conformance with NR 712.09 submittal certification requirements:

"I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."


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Attachments**Tables**

- Table 1 – Groundwater Measurements and Elevations
- Table 2 – Measured Field Parameters in Groundwater
- Table 3 – Detected VOCs in Groundwater
- Table 4 – Detected PAHs in Groundwater

Figures

- Figure 1 – Site Location
- Figure 2 – Site Layout
- Figure 3 – Water Table Contour Map – August 2019
- Figure 4 – Groundwater Analytical Summary Exceedances – August 2019

Laboratory Analytical Report

Cc: Lee Delcore, WDNR Project Manager

Table 1
Groundwater Measurements and Elevations
704 75th Street, Kenosha, Wisconsin

Well Number	MW-1	MW-2		MW-3		MW-4		TP-OBS		
Ground Elevation (ft)	607.60	607.36		609.06		610.54		606.83		
Top of PVC Casing (TOC) Elevation (ft)	607.03	606.80		608.66		610.1		607.03		
Top of Screen Elevation (ft)	600.32	599.89		602.2		603.25		--		
Screen Length (ft)	10	10		10		10		--		
TOC to Bottom of Well (ft) ^A	16.71	16.91		16.46		16.85		12.76		
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)
8/9/2018	9.85	597.18	9.75	597.05	10.46	598.20	9.92	600.18	9.22	597.81
2/13/2019	9.12	597.91	9.51	597.29	10.05	598.61	7.90	602.20	NM	--
5/23/2019	8.94	598.09	9.17	597.63	9.81	598.85	8.78	601.32	8.51	598.52
8/14/2019	10.27	596.76	9.84	596.96	10.61	598.05	10.58	599.52	9.47	597.56

NOTES:

ft = feet

^A = as measured inside well

-- No Elevation

Table 2
Measured Field Parameters in Groundwater
704 75th Street, Kenosha, Wisconsin

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/l)	ORP (Milivolts)	Conductivity (ms/cm)	Temperature (° Celcius)	Groundwater Elevation (feet msl)
MW-1	8/9/2018	7.14	7.08	201.10	1.128	20.98	597.18
	2/13/2019	6.19	11.6	30.70	0.692	8.67	597.91
	5/23/2019	6.79	7.22	101.1	0.738	20.49	598.09
	8/14/2019	7.05	5.04	93.6	0.588	17.38	596.76
MW-2	8/9/2018	6.55	5.85	159.90	1.073	21.45	597.05
	2/13/2019	6.61	9.16	26.50	0.875	7.39	597.29
	5/23/2019	7.15	7.31	94.40	0.960	20.91	597.63
	8/14/2019	7.17	6.03	95.90	0.720	20.25	596.96
MW-3	8/9/2018	6.90	6.64	140.60	0.607	20.74	598.20
	2/13/2019	6.59	10.02	32.00	0.377	6.46	598.61
	5/23/2019	6.56	7.15	110.60	0.521	18.71	598.85
	8/14/2019	6.85	6.33	112.40	0.419	18.49	598.05
MW-4	8/9/2018	7.33	6.81	124.20	0.503	25.53	600.18
	2/13/2019	5.78	9.36	81.70	0.220	5.91	602.20
	5/23/2019	6.30	6.92	91.90	0.308	23.24	601.32
	8/14/2019	7.34	6.46	85.00	0.459	17.73	599.52

mg/l = milligrams per liter

ms/cm - microsiemens per centimeter

msl = mean seal level

° = degrees

Table 3
Detected Volatile Organic Compounds in Groundwater
704 75th Street, Kenosha, Wisconsin

Field ID	Sample Date	1,2,4-Trimethyl benzene (ug/L)	1,3,5-Trimethyl benzene (ug/L)	Benzene (ug/L)	sec-Butyl benzene (ug/L)	Bromo dichloro methane (ug/L)	Bromo methane (ug/L)	Chloroform (ug/L)	Chloro methane (ug/L)	Ethylbenzene (ug/L)	Isopropyl benzene (Cumene) (ug/L)	p-Isopropyl tolulene (ug/L)	Methyl-tert-butyl ether (ug/L)	Naphthalene (ug/L)	n-Propyl benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)
MW-1	8/9/2018	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	<u>2.2^J</u>	< 1.3	34.7	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-1	2/15/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-1	5/23/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-1	8/14/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-2	8/9/2018	8.2	1.5^J	3.3	< 0.85	< 0.36	<u>2.4^J</u>	< 1.3	44.6	4.8	2.1 ^J	< 0.80	17.4	3.0^J	1.2^J	< 0.17	6.4
MW-2	2/15/2019	344	42.2	30.0	2.1 ^J	< 0.36	< 0.97	< 1.3	206	66.5	1.1 ^J	18.9	98.5	103	0.48 ^J	692	
MW-2	5/23/2019	248	37.1	17.1	1.8 ^J	< 0.36	< 0.97	< 1.3	185	49.8	1.0 ^J	18.3	77.9	87.4	0.26 ^J	624	
MW-2	8/14/2019	< 0.84	< 0.87	5.6	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	0.27 ^J	0.47 ^J	< 0.80	19.5	< 1.2	0.94 ^J	< 0.17	< 1.5
MW-3	8/9/2018	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	<u>2.4^J</u>	< 1.3	39.1	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-3	2/15/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-3	5/23/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-3	8/14/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4	8/9/2018	< 0.84	< 0.87	< 0.25	< 0.85	<u>0.58^J</u>	< 0.97	<u>3.0^J</u>	25.5	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4	2/15/2019	< 0.84	< 0.87	< 0.25	< 0.85	0.94^J	< 0.97	4.2^J	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4	5/23/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4	8/14/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4 DUP	8/9/2018	< 0.84	< 0.87	< 0.25	< 0.85	<u>0.51^J</u>	<u>1.6^J</u>	<u>3.0^J</u>	71.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4 DUP	2/15/2019	< 0.84	< 0.87	< 0.25	< 0.85	0.86^J	< 0.97	4.1^J	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4 DUP	5/23/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
MW-4 DUP	8/14/2019	< 0.84	< 0.87	< 0.25	< 0.85	< 0.36	< 0.97	< 1.3	< 2.2	< 0.22	< 0.39	< 0.80	< 1.2	< 1.2	< 0.81	< 0.17	< 1.5
PAL:		96 ^a	0.5	--	0.06	1	0.6	3	140	--	--	12	10	--	160	400	
ES:		480 ^a	5	--	0.6	10	6	30	700	--	--	60	100	--	800	2,000	

Notes:

ug/L = micrograms per liter

^J = Estimated value

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are *underlined italics*.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are **bold**.

^a PAL and ES are for 1,2,4- and 1,3,5-trimethylbenzenes combined

Table 4
Polycyclic Aromatic Hydrocarbons in Groundwater
704 75th Street, Kenosha, Wisconsin

Location/ Field ID	Sample Date	1-Methyl naphthalene (ug/L)	2-Methyl naphthalene (ug/L)	Ace- naphthalene (ug/L)	Ace- naphthylene (ug/L)	Anthracene (ug/L)	Benzo(a) anthracene (ug/L)	Benzo(a) pyrene (ug/L)	Benzo(b) fluoranthene (ug/L)	Benzo (g,h,i) perylene (ug/L)	Benzo(k) fluoranthene (ug/L)	Chrysene (ug/L)	Dibenz (a,h) anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	Indeno (1,2,3-cd) pyrene (ug/L)	Naphthalene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)
MW-1	8/9/2018	0.0082 ^{Jb}	0.0077 ^{Jb}	< 0.0060	< 0.0049	< 0.010	< 0.0074	< 0.010	< 0.0056	< 0.0066	< 0.0074	< 0.013	< 0.0098	< 0.010	< 0.0078	< 0.017	< 0.018	0.022 ^{Jb}	< 0.0075
MW-1	2/15/2019	0.0065 ^J	0.0063 ^J	< 0.0055	< 0.0045	< 0.0094	< 0.0068	< 0.0095	0.0060 ^J	< 0.0061	< 0.0068	< 0.012	< 0.0090	0.015 ^J	< 0.0072	< 0.016	< 0.017	0.022 ^J	0.014 ^J
MW-1	5/23/2019	< 0.0063	< 0.0053	< 0.0065	< 0.0054	< 0.011	< 0.0081	< 0.011	< 0.0062	< 0.0073	< 0.0081	< 0.014	< 0.011	< 0.011	< 0.0086	< 0.019	< 0.020	< 0.015	< 0.0082
MW-1	8/14/2019	< 0.0066	< 0.0055	< 0.0068	< 0.0056	< 0.012	< 0.0085	< 0.012	< 0.0064	< 0.0076	< 0.0085	< 0.015	< 0.011	< 0.012	< 0.0090	< 0.020	< 0.021	< 0.015	< 0.0086
MW-2	8/9/2018	0.048 ^b	0.026 ^b	< 0.0061	< 0.0050	< 0.010	< 0.0076	< 0.011	< 0.0057	< 0.0068	< 0.0076	< 0.013	< 0.010	< 0.011	< 0.0080	< 0.018	0.065 ^{Jb}	0.058 ^{Jb}	< 0.0076
MW-2	2/15/2019	5.0	1.1	0.013 ^J	< 0.0045	0.047 ^J	0.016 ^J	< 0.0096	0.015 ^J	< 0.0062	0.0078 ^J	0.026 ^J	< 0.0091	0.064	0.013 ^J	< 0.016	27.0	0.027 ^J	0.060
MW-2	5/23/2019	13.5	4.6	< 0.13	< 0.11	< 0.23	< 0.17	< 0.23	< 0.13	< 0.15	< 0.17	< 0.29	< 0.22	< 0.23	< 0.18	< 0.39	80.3	< 0.30	< 0.17
MW-2	8/14/2019	0.024 ^J	0.027 ^J	< 0.0075	< 0.0061	< 0.013	< 0.0093	< 0.013	< 0.0071	< 0.0084	< 0.0093	< 0.016	< 0.012	< 0.013	< 0.0098	< 0.022	< 0.023	< 0.017	< 0.0094
MW-3	8/9/2018	< 0.0059	< 0.0049	< 0.0061	< 0.0050	< 0.010	< 0.0076	< 0.011	< 0.0057	< 0.0068	< 0.0076	< 0.013	< 0.010	< 0.011	< 0.0080	< 0.018	0.014 ^{Jb}	< 0.0076	
MW-3	2/15/2019	< 0.0054	< 0.0045	< 0.0056	< 0.0046	< 0.0096	< 0.0069	< 0.0097	0.012 ^J	0.0093 ^J	0.0081 ^J	0.017 ^J	< 0.0092	0.025 ^J	< 0.0073	< 0.016	< 0.017	0.026 ^J	0.026 ^J
MW-3	5/23/2019	< 0.0059	< 0.0049	< 0.0061	< 0.0050	< 0.010	< 0.0076	< 0.011	< 0.0057	< 0.0068	< 0.0076	< 0.013	< 0.010	< 0.011	< 0.0080	< 0.018	< 0.018	< 0.014	< 0.0076
MW-3	8/14/2019	< 0.0066	< 0.0055	< 0.0068	< 0.0056	< 0.012	< 0.0085	< 0.012	< 0.0064	< 0.0076	< 0.0085	< 0.015	< 0.011	< 0.012	< 0.0090	< 0.020	< 0.021	< 0.015	< 0.0086
MW-4	8/9/2018	< 0.0055	< 0.0045	< 0.0056	< 0.0046	< 0.0097	< 0.0070	< 0.0098	< 0.0053	< 0.0063	< 0.0070	< 0.012	< 0.0093	< 0.0099	< 0.0074	< 0.016	< 0.017	< 0.013	< 0.0071
MW-4	2/15/2019	0.0073 ^J	0.0071 ^J	< 0.0055	< 0.0045	< 0.0094	< 0.0068	< 0.0095	< 0.0052	< 0.0061	< 0.0068	< 0.012	< 0.0090	< 0.0096	< 0.0072	< 0.016	< 0.017	0.013 ^J	< 0.0069
MW-4	5/23/2019	< 0.0062	< 0.0052	< 0.0064	< 0.0052	< 0.011	< 0.0079	< 0.011	< 0.0060	< 0.0071	0.0088 ^J	< 0.014	< 0.011	< 0.011	< 0.0084	< 0.019	< 0.019	< 0.015	< 0.0081
MW-4	8/14/2019	< 0.0064	< 0.0053	< 0.0066	< 0.0054	< 0.011	0.015 ^J	< 0.011	0.013 ^J	0.011 ^J	0.012 ^J	< 0.014	< 0.011	< 0.012	< 0.0087	< 0.019	< 0.020	< 0.015	0.010 ^J
MW-4 DUP	8/9/2018	< 0.0057	< 0.0048	< 0.0059	< 0.0048	< 0.010	< 0.0073	< 0.010	< 0.0056	< 0.0066	< 0.0073	< 0.013	< 0.0097	< 0.010	< 0.0077	< 0.017	< 0.018	< 0.013	< 0.0074
MW-4 DUP	2/15/2019	< 0.0053	< 0.0044	< 0.0055	< 0.0045	< 0.0094	< 0.0068	< 0.0095	< 0.0052	< 0.0061	< 0.0068	< 0.12	< 0.0090	< 0.0096	< 0.0072	< 0.016	< 0.017	< 0.012	< 0.0069
MW-4 DUP	5/23/2019	< 0.0059	< 0.0049	< 0.0061	< 0.0050	< 0.010	< 0.0076	< 0.011	< 0.0057	< 0.0068	< 0.0076	< 0.013	< 0.010	< 0.011	< 0.0080	< 0.018	< 0.018	< 0.014	< 0.0076
MW-4 DUP	8/14/2019	< 0.0069	< 0.0058	< 0.0071	< 0.0059	< 0.012	< 0.0089	< 0.012	0.0095 ^J	< 0.0080	< 0.0089	< 0.015	< 0.012	< 0.013	< 0.0094	< 0.021	< 0.022	< 0.016	0.011 ^J
PAL:		--	--	--	--	600	--	0.02	0.02	--	--	0.02	--	80	80	--	10	--	50
ES:		--	--	--	--	3,000	--	0.2	0.2	--	--	0.2	--	400	400	--	100	--	250

Notes:

ug/L = micrograms per liter

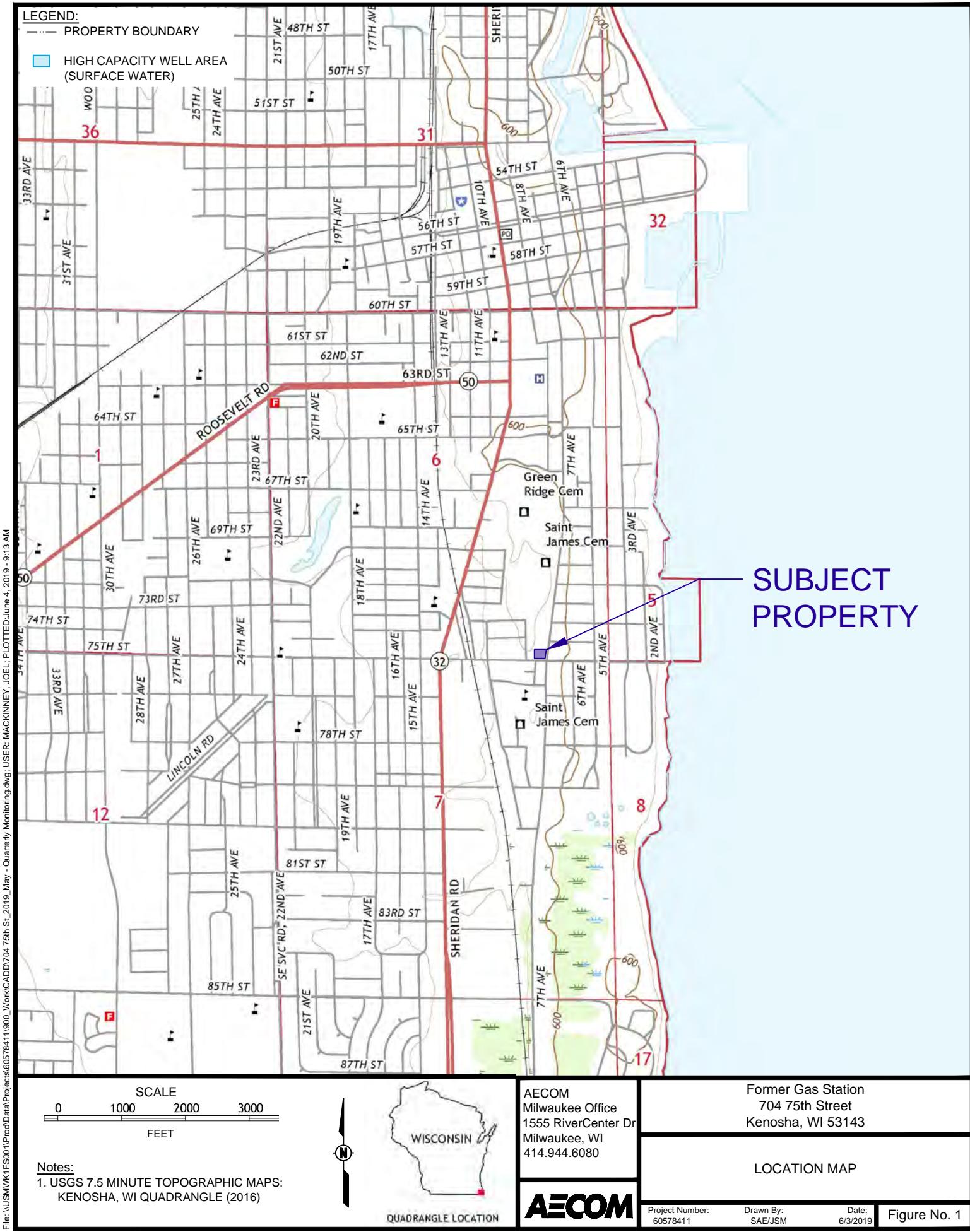
^J = Estimated value

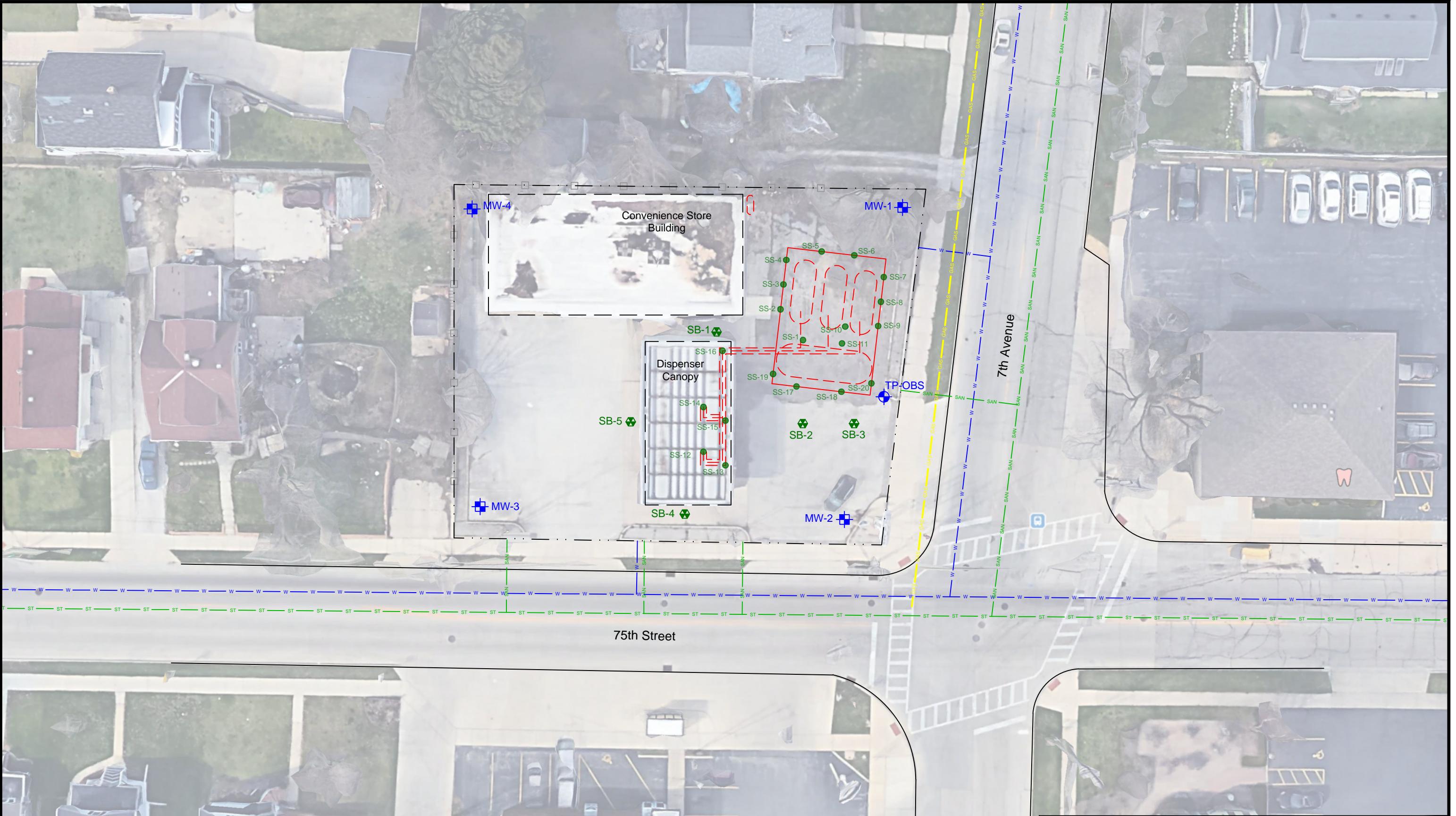
^b = Detected in laboratory blank

-- PAL or ES has not been established

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are *underlined italics*.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are **bold**.





LEGEND:
 PROPERTY BOUNDARY
 FENCE
 ROADS
 FORMER BUILDING & CANOPY
 FORMER UST
 FORMER UNDERGROUND PIPING
 UTILITY - GAS
 UTILITY - WATER
 UTILITY - SANITARY SEWER
 MONITORING WELL
 OBSERVATION WELL
 TSSA SOIL SAMPLE LOCATION
 SITE INVESTIGATION SOIL BORING

NOTES:

- AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/12/2018.

0' 15' 30' 60'
SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

Former Gas Station
704 75th Street
Kenosha, WI 53143

DETAILED SITE MAP

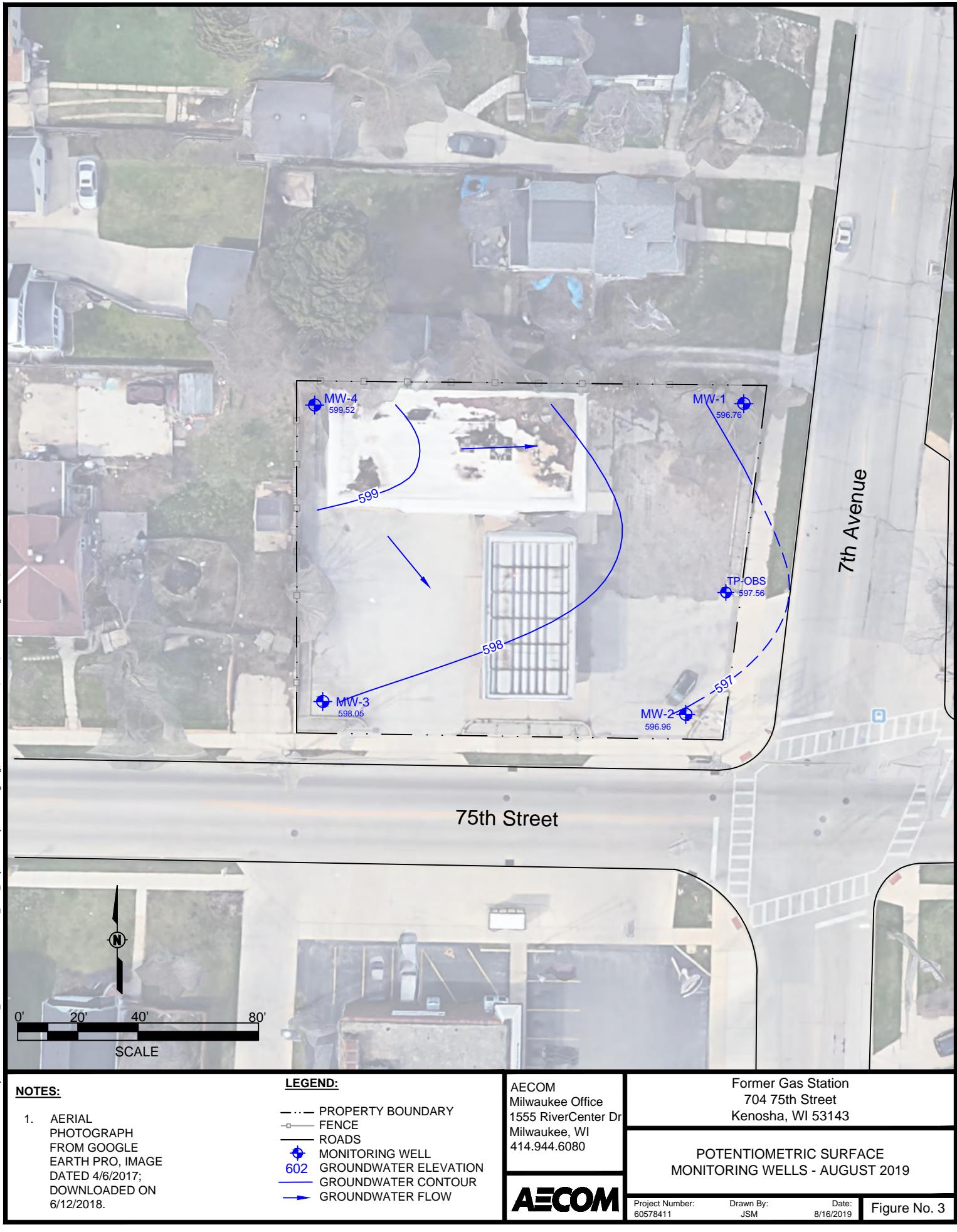
AECOM

Project Number:
60578411

Drawn By:
SAE/JSM

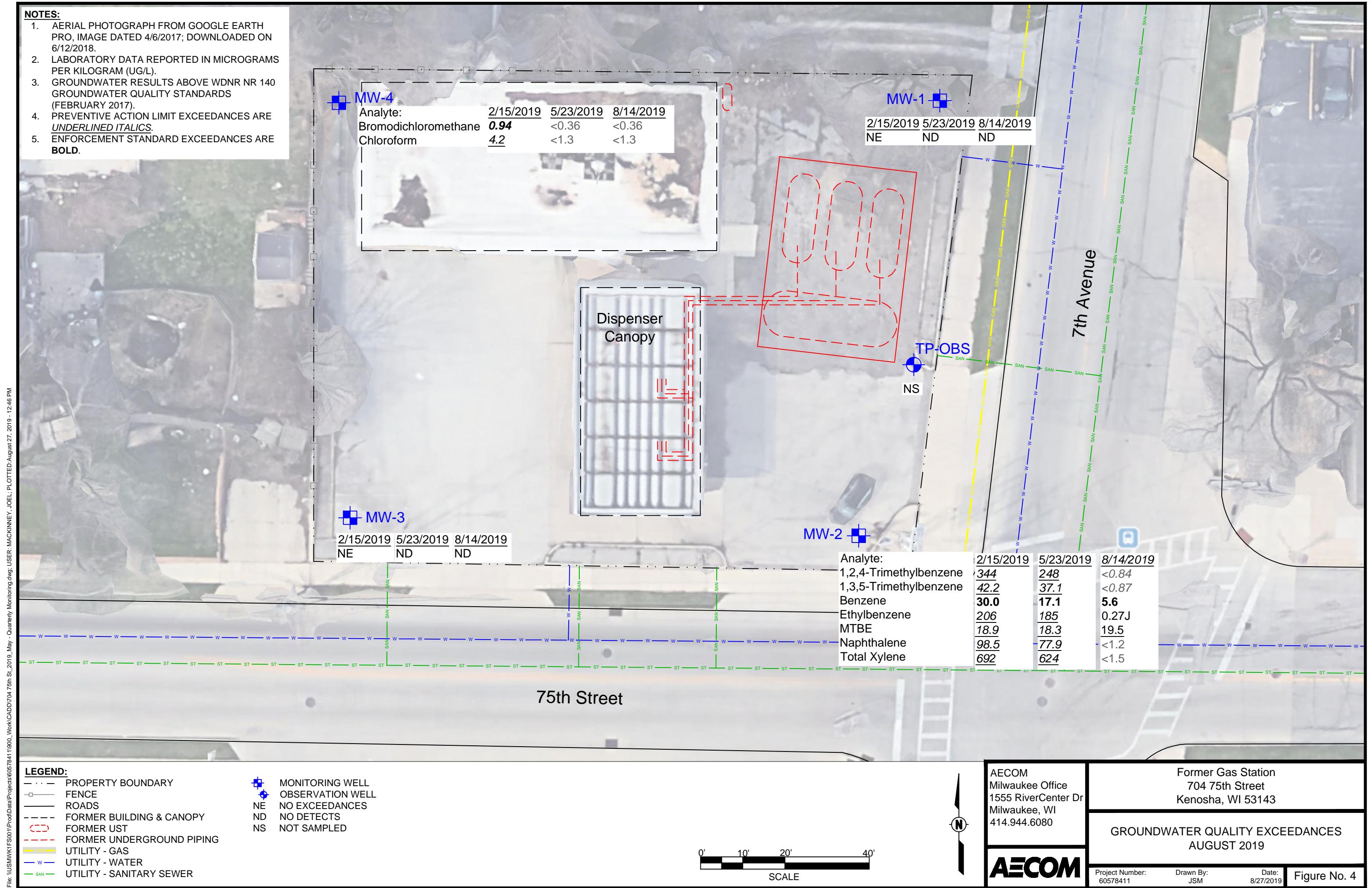
Date:
6/3/2019

Figure No. 2



NOTES:

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/12/2018.
2. LABORATORY DATA REPORTED IN MICROGRAMS PER KILOGRAM (UG/L).
3. GROUNDWATER RESULTS ABOVE WDNR NR 140 GROUNDWATER QUALITY STANDARDS (FEBRUARY 2017).
4. PREVENTIVE ACTION LIMIT EXCEEDANCES ARE UNDERLINED ITALICS.
5. ENFORCEMENT STANDARD EXCEEDANCES ARE **BOLD**.



August 22, 2019

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

RE: Project: 60578411 704 7TH STREET
Pace Project No.: 40193123

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Joel Mackinney, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60578411 704 7TH STREET
Pace Project No.: 40193123

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40193123001	TRIP BLANK	Water	08/14/19 12:00	08/16/19 08:55
40193123002	MW-3	Water	08/14/19 12:20	08/16/19 08:55
40193123003	MW-4	Water	08/14/19 12:40	08/16/19 08:55
40193123004	MW-4 DUP	Water	08/14/19 12:40	08/16/19 08:55
40193123005	MW-1	Water	08/14/19 13:30	08/16/19 08:55
40193123006	MW-2	Water	08/14/19 14:00	08/16/19 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60578411 704 7TH STREET
 Pace Project No.: 40193123

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40193123001	TRIP BLANK	EPA 8260	HNW	63	PASI-G
40193123002	MW-3	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	HNW	63	PASI-G
40193123003	MW-4	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	HNW	63	PASI-G
40193123004	MW-4 DUP	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	HNW	63	PASI-G
40193123005	MW-1	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	HNW	63	PASI-G
40193123006	MW-2	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	HNW	63	PASI-G

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SUMMARY OF DETECTION

Project: 60578411 704 7TH STREET
 Pace Project No.: 40193123

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40193123003	MW-4					
EPA 8270 by HVI	Benzo(a)anthracene	0.015J	ug/L	0.041	08/20/19 18:56	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.013J	ug/L	0.031	08/20/19 18:56	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.011J	ug/L	0.037	08/20/19 18:56	
EPA 8270 by HVI	Benzo(k)fluoranthene	0.012J	ug/L	0.041	08/20/19 18:56	
EPA 8270 by HVI	Pyrene	0.010J	ug/L	0.042	08/20/19 18:56	
40193123004	MW-4 DUP					
EPA 8270 by HVI	Benzo(b)fluoranthene	0.0095J	ug/L	0.034	08/21/19 08:10	
EPA 8270 by HVI	Pyrene	0.011J	ug/L	0.045	08/21/19 08:10	
40193123006	MW-2					
EPA 8270 by HVI	1-Methylnaphthalene	0.024J	ug/L	0.036	08/21/19 08:47	
EPA 8270 by HVI	2-Methylnaphthalene	0.027J	ug/L	0.030	08/21/19 08:47	
EPA 8260	Benzene	5.6	ug/L	1.0	08/19/19 23:31	
EPA 8260	Ethylbenzene	0.27J	ug/L	1.0	08/19/19 23:31	
EPA 8260	Isopropylbenzene (Cumene)	0.47J	ug/L	5.0	08/19/19 23:31	
EPA 8260	Methyl-tert-butyl ether	19.5	ug/L	4.2	08/19/19 23:31	
EPA 8260	n-Propylbenzene	0.94J	ug/L	5.0	08/19/19 23:31	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: TRIP BLANK	Lab ID: 40193123001	Collected: 08/14/19 12:00	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1		08/19/19 21:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 21:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 21:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 21:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 21:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 21:38	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 21:38	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 21:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 21:38	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 21:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 21:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 21:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 21:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 21:38	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 21:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 21:38	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 21:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 21:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 21:38	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 21:38	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 21:38	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 21:38	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 21:38	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 21:38	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 21:38	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 21:38	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 21:38	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 21:38	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 21:38	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 21:38	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 21:38	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 21:38	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 21:38	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 21:38	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 21:38	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 21:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/19/19 21:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 21:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/19/19 21:38	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 21:38	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 21:38	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/19/19 21:38	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 21:38	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/19/19 21:38	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 21:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 21:38	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: TRIP BLANK	Lab ID: 40193123001	Collected: 08/14/19 12:00	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 21:38	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 21:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 21:38	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 21:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 21:38	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 21:38	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 21:38	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 21:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 21:38	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 21:38	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 21:38	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 21:38	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 21:38	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 21:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		08/19/19 21:38	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		08/19/19 21:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 21:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-3	Lab ID: 40193123002	Collected: 08/14/19 12:20	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	<0.0068	ug/L	0.034	0.0068	1	08/19/19 08:32	08/20/19 18:38	83-32-9	
Acenaphthylene	<0.0056	ug/L	0.028	0.0056	1	08/19/19 08:32	08/20/19 18:38	208-96-8	
Anthracene	<0.012	ug/L	0.059	0.012	1	08/19/19 08:32	08/20/19 18:38	120-12-7	
Benzo(a)anthracene	<0.0085	ug/L	0.042	0.0085	1	08/19/19 08:32	08/20/19 18:38	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.059	0.012	1	08/19/19 08:32	08/20/19 18:38	50-32-8	
Benzo(b)fluoranthene	<0.0064	ug/L	0.032	0.0064	1	08/19/19 08:32	08/20/19 18:38	205-99-2	
Benzo(g,h,i)perylene	<0.0076	ug/L	0.038	0.0076	1	08/19/19 08:32	08/20/19 18:38	191-24-2	
Benzo(k)fluoranthene	<0.0085	ug/L	0.042	0.0085	1	08/19/19 08:32	08/20/19 18:38	207-08-9	
Chrysene	<0.015	ug/L	0.073	0.015	1	08/19/19 08:32	08/20/19 18:38	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.056	0.011	1	08/19/19 08:32	08/20/19 18:38	53-70-3	
Fluoranthene	<0.012	ug/L	0.060	0.012	1	08/19/19 08:32	08/20/19 18:38	206-44-0	
Fluorene	<0.0090	ug/L	0.045	0.0090	1	08/19/19 08:32	08/20/19 18:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.099	0.020	1	08/19/19 08:32	08/20/19 18:38	193-39-5	
1-Methylnaphthalene	<0.0066	ug/L	0.033	0.0066	1	08/19/19 08:32	08/20/19 18:38	90-12-0	
2-Methylnaphthalene	<0.0055	ug/L	0.028	0.0055	1	08/19/19 08:32	08/20/19 18:38	91-57-6	
Naphthalene	<0.021	ug/L	0.10	0.021	1	08/19/19 08:32	08/20/19 18:38	91-20-3	
Phenanthrene	<0.015	ug/L	0.077	0.015	1	08/19/19 08:32	08/20/19 18:38	85-01-8	
Pyrene	<0.0086	ug/L	0.043	0.0086	1	08/19/19 08:32	08/20/19 18:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%	30-85		1	08/19/19 08:32	08/20/19 18:38	321-60-8	
Terphenyl-d14 (S)	73	%	10-120		1	08/19/19 08:32	08/20/19 18:38	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1		08/19/19 22:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 22:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 22:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 22:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 22:00	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:00	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 22:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 22:00	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 22:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 22:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 22:00	74-87-3	M1
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 22:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 22:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 22:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 22:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 22:00	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 22:00	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:00	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 22:00	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 22:00	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-3	Lab ID: 40193123002	Collected: 08/14/19 12:20	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 22:00	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:00	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:00	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:00	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 22:00	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 22:00	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:00	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 22:00	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 22:00	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 22:00	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 22:00	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 22:00	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 22:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/19/19 22:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/19/19 22:00	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 22:00	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 22:00	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/19/19 22:00	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:00	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/19/19 22:00	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 22:00	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:00	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:00	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 22:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 22:00	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 22:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 22:00	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 22:00	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 22:00	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 22:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 22:00	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 22:00	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 22:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 22:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:00	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 22:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		08/19/19 22:00	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		08/19/19 22:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 22:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-4	Lab ID: 40193123003	Collected: 08/14/19 12:40	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	<0.0066	ug/L	0.033	0.0066	1	08/19/19 08:32	08/20/19 18:56	83-32-9	
Acenaphthylene	<0.0054	ug/L	0.027	0.0054	1	08/19/19 08:32	08/20/19 18:56	208-96-8	
Anthracene	<0.011	ug/L	0.057	0.011	1	08/19/19 08:32	08/20/19 18:56	120-12-7	
Benzo(a)anthracene	0.015J	ug/L	0.041	0.0082	1	08/19/19 08:32	08/20/19 18:56	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.057	0.011	1	08/19/19 08:32	08/20/19 18:56	50-32-8	
Benzo(b)fluoranthene	0.013J	ug/L	0.031	0.0062	1	08/19/19 08:32	08/20/19 18:56	205-99-2	
Benzo(g,h,i)perylene	0.011J	ug/L	0.037	0.0074	1	08/19/19 08:32	08/20/19 18:56	191-24-2	
Benzo(k)fluoranthene	0.012J	ug/L	0.041	0.0082	1	08/19/19 08:32	08/20/19 18:56	207-08-9	
Chrysene	<0.014	ug/L	0.071	0.014	1	08/19/19 08:32	08/20/19 18:56	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.054	0.011	1	08/19/19 08:32	08/20/19 18:56	53-70-3	
Fluoranthene	<0.012	ug/L	0.058	0.012	1	08/19/19 08:32	08/20/19 18:56	206-44-0	
Fluorene	<0.0087	ug/L	0.043	0.0087	1	08/19/19 08:32	08/20/19 18:56	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.096	0.019	1	08/19/19 08:32	08/20/19 18:56	193-39-5	
1-Methylnaphthalene	<0.0064	ug/L	0.032	0.0064	1	08/19/19 08:32	08/20/19 18:56	90-12-0	
2-Methylnaphthalene	<0.0053	ug/L	0.027	0.0053	1	08/19/19 08:32	08/20/19 18:56	91-57-6	
Naphthalene	<0.020	ug/L	0.10	0.020	1	08/19/19 08:32	08/20/19 18:56	91-20-3	
Phenanthrene	<0.015	ug/L	0.075	0.015	1	08/19/19 08:32	08/20/19 18:56	85-01-8	
Pyrene	0.010J	ug/L	0.042	0.0083	1	08/19/19 08:32	08/20/19 18:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	30-85		1	08/19/19 08:32	08/20/19 18:56	321-60-8	
Terphenyl-d14 (S)	65	%	10-120		1	08/19/19 08:32	08/20/19 18:56	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1		08/19/19 22:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 22:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 22:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 22:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 22:23	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:23	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 22:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 22:23	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 22:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 22:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 22:23	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 22:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 22:23	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 22:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 22:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 22:23	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 22:23	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:23	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 22:23	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 22:23	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-4	Lab ID: 40193123003	Collected: 08/14/19 12:40	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 22:23	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:23	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:23	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:23	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 22:23	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 22:23	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:23	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 22:23	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 22:23	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 22:23	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 22:23	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 22:23	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 22:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/19/19 22:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/19/19 22:23	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 22:23	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 22:23	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/19/19 22:23	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:23	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/19/19 22:23	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:23	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 22:23	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 22:23	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 22:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 22:23	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 22:23	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 22:23	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 22:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 22:23	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 22:23	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 22:23	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 22:23	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:23	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 22:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		08/19/19 22:23	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		08/19/19 22:23	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 22:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-4 DUP	Lab ID: 40193123004	Collected: 08/14/19 12:40	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	<0.0071	ug/L	0.036	0.0071	1	08/20/19 08:19	08/21/19 08:10	83-32-9	
Acenaphthylene	<0.0059	ug/L	0.029	0.0059	1	08/20/19 08:19	08/21/19 08:10	208-96-8	
Anthracene	<0.012	ug/L	0.061	0.012	1	08/20/19 08:19	08/21/19 08:10	120-12-7	
Benzo(a)anthracene	<0.0089	ug/L	0.044	0.0089	1	08/20/19 08:19	08/21/19 08:10	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.062	0.012	1	08/20/19 08:19	08/21/19 08:10	50-32-8	
Benzo(b)fluoranthene	0.0095J	ug/L	0.034	0.0068	1	08/20/19 08:19	08/21/19 08:10	205-99-2	
Benzo(g,h,i)perylene	<0.0080	ug/L	0.040	0.0080	1	08/20/19 08:19	08/21/19 08:10	191-24-2	
Benzo(k)fluoranthene	<0.0089	ug/L	0.044	0.0089	1	08/20/19 08:19	08/21/19 08:10	207-08-9	
Chrysene	<0.015	ug/L	0.077	0.015	1	08/20/19 08:19	08/21/19 08:10	218-01-9	
Dibenz(a,h)anthracene	<0.012	ug/L	0.059	0.012	1	08/20/19 08:19	08/21/19 08:10	53-70-3	
Fluoranthene	<0.013	ug/L	0.063	0.013	1	08/20/19 08:19	08/21/19 08:10	206-44-0	
Fluorene	<0.0094	ug/L	0.047	0.0094	1	08/20/19 08:19	08/21/19 08:10	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.021	ug/L	0.10	0.021	1	08/20/19 08:19	08/21/19 08:10	193-39-5	
1-Methylnaphthalene	<0.0069	ug/L	0.035	0.0069	1	08/20/19 08:19	08/21/19 08:10	90-12-0	
2-Methylnaphthalene	<0.0058	ug/L	0.029	0.0058	1	08/20/19 08:19	08/21/19 08:10	91-57-6	
Naphthalene	<0.022	ug/L	0.11	0.022	1	08/20/19 08:19	08/21/19 08:10	91-20-3	
Phenanthrene	<0.016	ug/L	0.081	0.016	1	08/20/19 08:19	08/21/19 08:10	85-01-8	
Pyrene	0.011J	ug/L	0.045	0.0090	1	08/20/19 08:19	08/21/19 08:10	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%	30-85		1	08/20/19 08:19	08/21/19 08:10	321-60-8	
Terphenyl-d14 (S)	74	%	10-120		1	08/20/19 08:19	08/21/19 08:10	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1		08/19/19 22:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 22:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 22:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 22:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 22:45	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:45	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 22:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 22:45	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 22:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 22:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 22:45	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 22:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 22:45	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 22:45	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 22:45	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 22:45	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 22:45	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 22:45	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 22:45	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 22:45	106-46-7	

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-4 DUP	Lab ID: 40193123004	Collected: 08/14/19 12:40	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 22:45	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:45	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:45	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 22:45	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 22:45	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 22:45	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:45	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 22:45	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 22:45	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 22:45	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 22:45	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 22:45	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 22:45	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/19/19 22:45	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:45	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/19/19 22:45	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 22:45	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 22:45	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/19/19 22:45	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 22:45	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/19/19 22:45	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 22:45	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 22:45	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 22:45	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 22:45	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 22:45	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 22:45	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 22:45	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 22:45	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 22:45	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 22:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 22:45	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 22:45	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 22:45	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 22:45	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 22:45	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 22:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		08/19/19 22:45	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		08/19/19 22:45	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 22:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-1	Lab ID: 40193123005	Collected: 08/14/19 13:30	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	<0.0068	ug/L	0.034	0.0068	1	08/20/19 08:19	08/21/19 08:28	83-32-9	
Acenaphthylene	<0.0056	ug/L	0.028	0.0056	1	08/20/19 08:19	08/21/19 08:28	208-96-8	
Anthracene	<0.012	ug/L	0.059	0.012	1	08/20/19 08:19	08/21/19 08:28	120-12-7	
Benzo(a)anthracene	<0.0085	ug/L	0.042	0.0085	1	08/20/19 08:19	08/21/19 08:28	56-55-3	
Benzo(a)pyrene	<0.012	ug/L	0.059	0.012	1	08/20/19 08:19	08/21/19 08:28	50-32-8	
Benzo(b)fluoranthene	<0.0064	ug/L	0.032	0.0064	1	08/20/19 08:19	08/21/19 08:28	205-99-2	
Benzo(g,h,i)perylene	<0.0076	ug/L	0.038	0.0076	1	08/20/19 08:19	08/21/19 08:28	191-24-2	
Benzo(k)fluoranthene	<0.0085	ug/L	0.042	0.0085	1	08/20/19 08:19	08/21/19 08:28	207-08-9	
Chrysene	<0.015	ug/L	0.073	0.015	1	08/20/19 08:19	08/21/19 08:28	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.056	0.011	1	08/20/19 08:19	08/21/19 08:28	53-70-3	
Fluoranthene	<0.012	ug/L	0.060	0.012	1	08/20/19 08:19	08/21/19 08:28	206-44-0	
Fluorene	<0.0090	ug/L	0.045	0.0090	1	08/20/19 08:19	08/21/19 08:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.020	ug/L	0.099	0.020	1	08/20/19 08:19	08/21/19 08:28	193-39-5	
1-Methylnaphthalene	<0.0066	ug/L	0.033	0.0066	1	08/20/19 08:19	08/21/19 08:28	90-12-0	
2-Methylnaphthalene	<0.0055	ug/L	0.028	0.0055	1	08/20/19 08:19	08/21/19 08:28	91-57-6	
Naphthalene	<0.021	ug/L	0.10	0.021	1	08/20/19 08:19	08/21/19 08:28	91-20-3	
Phenanthrene	<0.015	ug/L	0.077	0.015	1	08/20/19 08:19	08/21/19 08:28	85-01-8	
Pyrene	<0.0086	ug/L	0.043	0.0086	1	08/20/19 08:19	08/21/19 08:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	30-85		1	08/20/19 08:19	08/21/19 08:28	321-60-8	
Terphenyl-d14 (S)	68	%	10-120		1	08/20/19 08:19	08/21/19 08:28	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1		08/19/19 23:08	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 23:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 23:08	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 23:08	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 23:08	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 23:08	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:08	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 23:08	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 23:08	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 23:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 23:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 23:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 23:08	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 23:08	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 23:08	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 23:08	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 23:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 23:08	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 23:08	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:08	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 23:08	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 23:08	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-1	Lab ID: 40193123005	Collected: 08/14/19 13:30	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 23:08	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 23:08	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:08	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 23:08	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 23:08	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 23:08	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:08	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 23:08	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 23:08	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 23:08	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 23:08	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 23:08	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 23:08	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/19/19 23:08	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 23:08	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/19/19 23:08	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 23:08	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 23:08	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/19/19 23:08	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 23:08	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/19/19 23:08	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 23:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 23:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:08	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 23:08	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 23:08	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 23:08	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 23:08	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 23:08	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 23:08	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 23:08	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 23:08	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 23:08	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 23:08	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 23:08	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 23:08	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 23:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		08/19/19 23:08	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		08/19/19 23:08	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 23:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-2	Lab ID: 40193123006	Collected: 08/14/19 14:00	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	<0.0075	ug/L	0.037	0.0075	1	08/20/19 08:19	08/21/19 08:47	83-32-9	
Acenaphthylene	<0.0061	ug/L	0.031	0.0061	1	08/20/19 08:19	08/21/19 08:47	208-96-8	
Anthracene	<0.013	ug/L	0.065	0.013	1	08/20/19 08:19	08/21/19 08:47	120-12-7	
Benzo(a)anthracene	<0.0093	ug/L	0.047	0.0093	1	08/20/19 08:19	08/21/19 08:47	56-55-3	
Benzo(a)pyrene	<0.013	ug/L	0.065	0.013	1	08/20/19 08:19	08/21/19 08:47	50-32-8	
Benzo(b)fluoranthene	<0.0071	ug/L	0.035	0.0071	1	08/20/19 08:19	08/21/19 08:47	205-99-2	
Benzo(g,h,i)perylene	<0.0084	ug/L	0.042	0.0084	1	08/20/19 08:19	08/21/19 08:47	191-24-2	
Benzo(k)fluoranthene	<0.0093	ug/L	0.047	0.0093	1	08/20/19 08:19	08/21/19 08:47	207-08-9	
Chrysene	<0.016	ug/L	0.081	0.016	1	08/20/19 08:19	08/21/19 08:47	218-01-9	
Dibenz(a,h)anthracene	<0.012	ug/L	0.062	0.012	1	08/20/19 08:19	08/21/19 08:47	53-70-3	
Fluoranthene	<0.013	ug/L	0.066	0.013	1	08/20/19 08:19	08/21/19 08:47	206-44-0	
Fluorene	<0.0098	ug/L	0.049	0.0098	1	08/20/19 08:19	08/21/19 08:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.022	ug/L	0.11	0.022	1	08/20/19 08:19	08/21/19 08:47	193-39-5	
1-Methylnaphthalene	0.024J	ug/L	0.036	0.0073	1	08/20/19 08:19	08/21/19 08:47	90-12-0	
2-Methylnaphthalene	0.027J	ug/L	0.030	0.0060	1	08/20/19 08:19	08/21/19 08:47	91-57-6	
Naphthalene	<0.023	ug/L	0.11	0.023	1	08/20/19 08:19	08/21/19 08:47	91-20-3	
Phenanthrene	<0.017	ug/L	0.085	0.017	1	08/20/19 08:19	08/21/19 08:47	85-01-8	
Pyrene	<0.0094	ug/L	0.047	0.0094	1	08/20/19 08:19	08/21/19 08:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	30-85		1	08/20/19 08:19	08/21/19 08:47	321-60-8	
Terphenyl-d14 (S)	64	%	10-120		1	08/20/19 08:19	08/21/19 08:47	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	5.6	ug/L	1.0	0.25	1		08/19/19 23:31	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/19/19 23:31	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/19/19 23:31	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/19/19 23:31	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/19/19 23:31	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/19/19 23:31	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:31	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/19/19 23:31	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/19/19 23:31	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/19/19 23:31	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:31	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/19/19 23:31	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/19/19 23:31	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/19/19 23:31	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/19/19 23:31	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/19/19 23:31	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/19/19 23:31	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/19/19 23:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/19/19 23:31	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/19/19 23:31	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/19/19 23:31	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/19/19 23:31	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/19/19 23:31	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Sample: MW-2	Lab ID: 40193123006	Collected: 08/14/19 14:00	Received: 08/16/19 08:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/19/19 23:31	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 23:31	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:31	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/19/19 23:31	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/19/19 23:31	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/19/19 23:31	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:31	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/19/19 23:31	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/19/19 23:31	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/19/19 23:31	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/19/19 23:31	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/19/19 23:31	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/19/19 23:31	108-20-3	
Ethylbenzene	0.27J	ug/L	1.0	0.22	1		08/19/19 23:31	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/19/19 23:31	87-68-3	
Isopropylbenzene (Cumene)	0.47J	ug/L	5.0	0.39	1		08/19/19 23:31	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/19/19 23:31	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/19/19 23:31	75-09-2	
Methyl-tert-butyl ether	19.5	ug/L	4.2	1.2	1		08/19/19 23:31	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/19/19 23:31	91-20-3	
n-Propylbenzene	0.94J	ug/L	5.0	0.81	1		08/19/19 23:31	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		08/19/19 23:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/19/19 23:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/19/19 23:31	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/19/19 23:31	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/19/19 23:31	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/19/19 23:31	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/19/19 23:31	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/19/19 23:31	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/19/19 23:31	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/19/19 23:31	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/19/19 23:31	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/19/19 23:31	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/19/19 23:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/19/19 23:31	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/19/19 23:31	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		08/19/19 23:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		08/19/19 23:31	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		08/19/19 23:31	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/19/19 23:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

QC Batch: 331005 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 40193123001, 40193123002, 40193123003, 40193123004, 40193123005, 40193123006

METHOD BLANK: 1921212 Matrix: Water

Associated Lab Samples: 40193123001, 40193123002, 40193123003, 40193123004, 40193123005, 40193123006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/19/19 17:08	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/19/19 17:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/19/19 17:08	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/19/19 17:08	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/19/19 17:08	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/19/19 17:08	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/19/19 17:08	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	08/19/19 17:08	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/19/19 17:08	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/19/19 17:08	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/19/19 17:08	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/19/19 17:08	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/19/19 17:08	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/19/19 17:08	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/19/19 17:08	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/19/19 17:08	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/19/19 17:08	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/19/19 17:08	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/19/19 17:08	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/19/19 17:08	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/19/19 17:08	
2-Chlorotoluene	ug/L	<0.93	5.0	08/19/19 17:08	
4-Chlorotoluene	ug/L	<0.76	2.5	08/19/19 17:08	
Benzene	ug/L	<0.25	1.0	08/19/19 17:08	
Bromobenzene	ug/L	<0.24	1.0	08/19/19 17:08	
Bromochloromethane	ug/L	<0.36	5.0	08/19/19 17:08	
Bromodichloromethane	ug/L	<0.36	1.2	08/19/19 17:08	
Bromoform	ug/L	<4.0	13.2	08/19/19 17:08	
Bromomethane	ug/L	<0.97	5.0	08/19/19 17:08	
Carbon tetrachloride	ug/L	<0.17	1.0	08/19/19 17:08	
Chlorobenzene	ug/L	<0.71	2.4	08/19/19 17:08	
Chloroethane	ug/L	<1.3	5.0	08/19/19 17:08	
Chloroform	ug/L	<1.3	5.0	08/19/19 17:08	
Chloromethane	ug/L	<2.2	7.3	08/19/19 17:08	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/19/19 17:08	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/19/19 17:08	
Dibromochloromethane	ug/L	<2.6	8.7	08/19/19 17:08	
Dibromomethane	ug/L	<0.94	3.1	08/19/19 17:08	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/19/19 17:08	
Diisopropyl ether	ug/L	<1.9	6.3	08/19/19 17:08	
Ethylbenzene	ug/L	<0.22	1.0	08/19/19 17:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

METHOD BLANK: 1921212

Matrix: Water

Associated Lab Samples: 40193123001, 40193123002, 40193123003, 40193123004, 40193123005, 40193123006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	08/19/19 17:08	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	08/19/19 17:08	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/19/19 17:08	
Methylene Chloride	ug/L	<0.58	5.0	08/19/19 17:08	
n-Butylbenzene	ug/L	<0.71	2.4	08/19/19 17:08	
n-Propylbenzene	ug/L	<0.81	5.0	08/19/19 17:08	
Naphthalene	ug/L	<1.2	5.0	08/19/19 17:08	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/19/19 17:08	
sec-Butylbenzene	ug/L	<0.85	5.0	08/19/19 17:08	
Styrene	ug/L	<0.47	1.6	08/19/19 17:08	
tert-Butylbenzene	ug/L	<0.30	1.0	08/19/19 17:08	
Tetrachloroethene	ug/L	<0.33	1.1	08/19/19 17:08	
Toluene	ug/L	<0.17	5.0	08/19/19 17:08	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	08/19/19 17:08	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/19/19 17:08	
Trichloroethene	ug/L	<0.26	1.0	08/19/19 17:08	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/19/19 17:08	
Vinyl chloride	ug/L	<0.17	1.0	08/19/19 17:08	
Xylene (Total)	ug/L	<1.5	3.0	08/19/19 17:08	
4-Bromofluorobenzene (S)	%	90	70-130	08/19/19 17:08	
Dibromofluoromethane (S)	%	103	70-130	08/19/19 17:08	
Toluene-d8 (S)	%	96	70-130	08/19/19 17:08	

LABORATORY CONTROL SAMPLE: 1921213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.9	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	41.7	83	70-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	42.0	84	73-150	
1,1-Dichloroethene	ug/L	50	38.8	78	73-138	
1,2,4-Trichlorobenzene	ug/L	50	42.9	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	31.8	64	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	45.3	91	70-130	
1,2-Dichlorobenzene	ug/L	50	46.6	93	70-130	
1,2-Dichloroethane	ug/L	50	44.5	89	75-140	
1,2-Dichloropropane	ug/L	50	53.0	106	73-135	
1,3-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,4-Dichlorobenzene	ug/L	50	48.6	97	70-130	
Benzene	ug/L	50	44.0	88	70-130	
Bromodichloromethane	ug/L	50	45.3	91	70-130	
Bromoform	ug/L	50	38.1	76	68-129	
Bromomethane	ug/L	50	17.8	36	18-159	
Carbon tetrachloride	ug/L	50	45.4	91	70-130	

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

LABORATORY CONTROL SAMPLE: 1921213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	33.4	67	53-147	
Chloroform	ug/L	50	43.1	86	74-136	
Chloromethane	ug/L	50	28.3	57	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.2	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	39.5	79	70-130	
Dibromochloromethane	ug/L	50	45.8	92	70-130	
Dichlorodifluoromethane	ug/L	50	11.5	23	10-130	
Ethylbenzene	ug/L	50	49.1	98	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	70-130	
Methyl-tert-butyl ether	ug/L	50	33.7	67	54-137	
Methylene Chloride	ug/L	50	39.2	78	73-138	
Styrene	ug/L	50	50.8	102	70-130	
Tetrachloroethene	ug/L	50	51.8	104	70-130	
Toluene	ug/L	50	49.7	99	80-126	
trans-1,2-Dichloroethene	ug/L	50	40.3	81	73-145	
trans-1,3-Dichloropropene	ug/L	50	37.8	76	70-130	
Trichloroethene	ug/L	50	49.1	98	70-130	
Trichlorofluoromethane	ug/L	50	41.9	84	76-147	
Vinyl chloride	ug/L	50	28.1	56	51-120	
Xylene (Total)	ug/L	150	153	102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921454 1921455

Parameter	Units	40193123002		MS		MSD		MS		MSD		% Rec		Max RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	MSD	Result	MSD	Result	% Rec	MSD	% Rec	Limits	RPD		
1,1,1-Trichloroethane	ug/L	<0.24	50	50	48.8	47.8	98	96	70-130	70-130	70-130	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	46.9	45.6	94	91	70-130	70-130	70-130	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.6	50.2	103	100	70-137	70-137	70-137	70-137	3	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	45.1	44.3	90	89	73-153	73-153	73-153	73-153	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	50.0	49.0	100	98	73-138	73-138	73-138	73-138	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.3	48.0	99	96	70-130	70-130	70-130	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	38.5	37.6	77	75	58-129	58-129	58-129	58-129	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.7	49.2	101	98	70-130	70-130	70-130	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.0	50.3	104	101	70-130	70-130	70-130	70-130	3	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	49.3	48.3	99	97	75-140	75-140	75-140	75-140	2	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	55.7	54.5	111	109	71-138	71-138	71-138	71-138	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.3	52.5	107	105	70-130	70-130	70-130	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.4	52.2	107	104	70-130	70-130	70-130	70-130	2	20		
Benzene	ug/L	<0.25	50	50	50.6	50.0	101	100	70-130	70-130	70-130	70-130	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	49.3	48.3	99	97	70-130	70-130	70-130	70-130	2	20		

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Parameter	Units	40193123002		MS		MSD		1921455				
		Result	Spike Conc.	Spike	Conc.	MS Result	MSD	MS % Rec	MSD % Rec	% Rec	RPD	RPD
Bromoform	ug/L	<4.0	50	50	42.3	40.9	85	82	68-129	3	20	
Bromomethane	ug/L	<0.97	50	50	54.8	54.8	110	110	15-170	0	20	
Carbon tetrachloride	ug/L	<0.17	50	50	53.1	51.7	106	103	70-130	3	20	
Chlorobenzene	ug/L	<0.71	50	50	55.7	53.8	111	108	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	49.2	47.5	98	95	51-148	4	20	
Chloroform	ug/L	<1.3	50	50	48.9	48.0	98	96	74-136	2	20	
Chloromethane	ug/L	<2.2	50	50	65.7	64.5	130	127	23-115	2	20	M1
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	57.9	57.7	116	115	70-131	0	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.1	43.9	88	88	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.7	49.9	103	100	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	51.4	50.1	103	100	10-132	3	20	
Ethylbenzene	ug/L	<0.22	50	50	55.1	54.0	110	108	80-125	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	55.9	54.8	112	110	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.7	39.0	79	78	51-145	2	20	
Methylene Chloride	ug/L	<0.58	50	50	45.4	44.6	91	89	73-140	2	20	
Styrene	ug/L	<0.47	50	50	55.6	53.6	111	107	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	64.2	62.0	128	124	70-130	4	20	
Toluene	ug/L	<0.17	50	50	55.6	54.1	111	108	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	45.4	44.8	91	90	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.2	42.5	86	85	70-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	52.5	51.4	105	103	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	54.9	53.7	110	107	74-147	2	20	
Vinyl chloride	ug/L	<0.17	50	50	52.2	51.6	104	103	41-129	1	20	
Xylene (Total)	ug/L	<1.5	150	150	169	164	113	109	70-130	3	20	
4-Bromofluorobenzene (S)	%							100	99	70-130		
Dibromofluoromethane (S)	%							100	99	70-130		
Toluene-d8 (S)	%							101	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

QC Batch:	331009	Analysis Method:	EPA 8270 by HVI
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH by HVI
Associated Lab Samples:	40193123002, 40193123003		

METHOD BLANK: 1921218 Matrix: Water

Associated Lab Samples: 40193123002, 40193123003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	08/19/19 13:22	
2-Methylnaphthalene	ug/L	<0.0049	0.024	08/19/19 13:22	
Acenaphthene	ug/L	<0.0061	0.030	08/19/19 13:22	
Acenaphthylene	ug/L	<0.0050	0.025	08/19/19 13:22	
Anthracene	ug/L	<0.010	0.052	08/19/19 13:22	
Benzo(a)anthracene	ug/L	<0.0076	0.038	08/19/19 13:22	
Benzo(a)pyrene	ug/L	<0.011	0.053	08/19/19 13:22	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	08/19/19 13:22	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	08/19/19 13:22	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	08/19/19 13:22	
Chrysene	ug/L	<0.013	0.065	08/19/19 13:22	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	08/19/19 13:22	
Fluoranthene	ug/L	<0.011	0.053	08/19/19 13:22	
Fluorene	ug/L	<0.0080	0.040	08/19/19 13:22	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	08/19/19 13:22	
Naphthalene	ug/L	<0.018	0.092	08/19/19 13:22	
Phenanthrene	ug/L	<0.014	0.069	08/19/19 13:22	
Pyrene	ug/L	<0.0076	0.038	08/19/19 13:22	
2-Fluorobiphenyl (S)	%	60	30-85	08/19/19 13:22	
Terphenyl-d14 (S)	%	99	10-120	08/19/19 13:22	

LABORATORY CONTROL SAMPLE: 1921219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.0	50	39-88	
2-Methylnaphthalene	ug/L	2	1.1	53	40-93	
Acenaphthene	ug/L	2	1.2	60	43-102	
Acenaphthylene	ug/L	2	1.2	59	42-103	
Anthracene	ug/L	2	1.4	68	52-105	
Benzo(a)anthracene	ug/L	2	1.6	82	39-120	
Benzo(a)pyrene	ug/L	2	1.6	79	57-117	
Benzo(b)fluoranthene	ug/L	2	1.4	72	54-117	
Benzo(g,h,i)perylene	ug/L	2	0.87	44	32-82	
Benzo(k)fluoranthene	ug/L	2	1.7	86	56-123	
Chrysene	ug/L	2	1.9	94	63-122	
Dibenz(a,h)anthracene	ug/L	2	0.70	35	23-76	
Fluoranthene	ug/L	2	1.5	74	52-112	
Fluorene	ug/L	2	1.3	63	46-116	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.3	67	49-110	
Naphthalene	ug/L	2	1.1	56	37-84	

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

LABORATORY CONTROL SAMPLE: 1921219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.4	69	50-104	
Pyrene	ug/L	2	1.6	82	57-123	
2-Fluorobiphenyl (S)	%			60	30-85	
Terphenyl-d14 (S)	%			99	10-120	

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

QC Batch:	331117	Analysis Method:	EPA 8270 by HVI
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water PAH by HVI
Associated Lab Samples:	40193123004, 40193123005, 40193123006		

METHOD BLANK: 1921514 Matrix: Water

Associated Lab Samples: 40193123004, 40193123005, 40193123006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	08/20/19 13:07	
2-Methylnaphthalene	ug/L	<0.0049	0.024	08/20/19 13:07	
Acenaphthene	ug/L	<0.0061	0.030	08/20/19 13:07	
Acenaphthylene	ug/L	<0.0050	0.025	08/20/19 13:07	
Anthracene	ug/L	<0.010	0.052	08/20/19 13:07	
Benzo(a)anthracene	ug/L	<0.0076	0.038	08/20/19 13:07	
Benzo(a)pyrene	ug/L	<0.011	0.053	08/20/19 13:07	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	08/20/19 13:07	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	08/20/19 13:07	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	08/20/19 13:07	
Chrysene	ug/L	<0.013	0.065	08/20/19 13:07	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	08/20/19 13:07	
Fluoranthene	ug/L	<0.011	0.053	08/20/19 13:07	
Fluorene	ug/L	<0.0080	0.040	08/20/19 13:07	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	08/20/19 13:07	
Naphthalene	ug/L	<0.018	0.092	08/20/19 13:07	
Phenanthrene	ug/L	<0.014	0.069	08/20/19 13:07	
Pyrene	ug/L	<0.0076	0.038	08/20/19 13:07	
2-Fluorobiphenyl (S)	%	54	30-85	08/20/19 13:07	
Terphenyl-d14 (S)	%	96	10-120	08/20/19 13:07	

LABORATORY CONTROL SAMPLE: 1921515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	0.95	48	39-88	
2-Methylnaphthalene	ug/L	2	1.0	50	40-93	
Acenaphthene	ug/L	2	1.1	57	43-102	
Acenaphthylene	ug/L	2	1.1	55	42-103	
Anthracene	ug/L	2	1.4	68	52-105	
Benzo(a)anthracene	ug/L	2	1.6	80	39-120	
Benzo(a)pyrene	ug/L	2	1.5	76	57-117	
Benzo(b)fluoranthene	ug/L	2	1.3	67	54-117	
Benzo(g,h,i)perylene	ug/L	2	0.65	32	32-82	
Benzo(k)fluoranthene	ug/L	2	1.7	83	56-123	
Chrysene	ug/L	2	1.7	87	63-122	
Dibenz(a,h)anthracene	ug/L	2	0.52	26	23-76	
Fluoranthene	ug/L	2	1.4	72	52-112	
Fluorene	ug/L	2	1.3	63	46-116	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.3	63	49-110	
Naphthalene	ug/L	2	1.0	51	37-84	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

LABORATORY CONTROL SAMPLE: 1921515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.4	70	50-104	
Pyrene	ug/L	2	1.6	82	57-123	
2-Fluorobiphenyl (S)	%			57	30-85	
Terphenyl-d14 (S)	%			96	10-120	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60578411 704 7TH STREET
Pace Project No.: 40193123

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 331072

[1] A MS/MSD was extracted with this batch but it is reported with a different analytical batch.

Batch: 331218

[1] A MS/MSD was extracted with this batch but it is reported with a different analytical batch

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60578411 704 7TH STREET

Pace Project No.: 40193123

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40193123002	MW-3	EPA 3510	331009	EPA 8270 by HVI	331072
40193123003	MW-4	EPA 3510	331009	EPA 8270 by HVI	331072
40193123004	MW-4 DUP	EPA 3510	331117	EPA 8270 by HVI	331218
40193123005	MW-1	EPA 3510	331117	EPA 8270 by HVI	331218
40193123006	MW-2	EPA 3510	331117	EPA 8270 by HVI	331218
40193123001	TRIP BLANK	EPA 8260	331005		
40193123002	MW-3	EPA 8260	331005		
40193123003	MW-4	EPA 8260	331005		
40193123004	MW-4 DUP	EPA 8260	331005		
40193123005	MW-1	EPA 8260	331005		
40193123006	MW-2	EPA 8260	331005		

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CHAIN-OFF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40193723

M5C

Section A

Required Client Information:

Company: AECOM - Milwaukee	Report To: Lanette Altenbach	Attention: Accounts Payable/Finance Department
Address: 1555 N. River Center Dr., Suite 214 Milwaukee, WI 53212	Copy To: Joel Mackinney	Company Name: City of Kenosha
Email To: Lanette.Altenbach@aecom.com	Purchase Order No.: N/A	Address: 652 52nd St., Kenosha, WI 53140
Phone: 414-577-1363	Project Name: 704 75th Street	Pace Quote Reference: N/A
Requested Due Date/TAT: Standard	Project Number: 60578411	Pace Project Manager: Chris Hyska
		Pace Profile #: (2430) Kenosha work

Section B

Required Project Information:

Valid Matrix Codes	COLLECTED	Preservatives	Ant.	Residual Chlorine (Y/N)	Project Number
MATRIX CODE	G+GRAB C-COMP	SAMPLE TYPE	Ant.		Lab ID.
DRINKING WATER	DATE	COLLECTION			
WATER	TIME	COMPOSITE ENDIGRAB			
WATER	DATE	COMPOSITE START			
PRODUCT	TIME				
SOLID					
CHEM.					
WINE					
AIR					
OTHER					
TISSUE					

Section C

Invoice Information:

SAMPLE ID	COLLECTED	Preservatives	Ant.	Residual Chlorine (Y/N)	Project Number
One Character per box. (A-Z, 0-9, /, -) Samples IDs MUST BE UNIQUE	DATE	COLLECTION	Ant.		Lab ID.
ITEM #	TIME	COMPOSITE ENDIGRAB			
1 Trip Blank	WT G	8/14/19 12:00	2	X	001
2 MW-3	WT G	8/14/19 12:20	5	X	002
3 MW-4	WT G	8/14/19 12:40	5	X	003
4 MW-4 DUP	WT G	8/14/19 12:40	5	X	004
5 MW-1	WT G	8/14/19 13:30	5	X	005
6 MW-2	WT G	8/14/19 14:00	5	X	006
7					
8					
9					
10					
11					
12					

Section D

Required Client Information:

Required Client Information:	COLLECTED	Preservatives	Ant.	Residual Chlorine (Y/N)	Project Number
Invoice Information:	DATE	COLLECTION	Ant.		Lab ID.
Attention: Accounts Payable/Finance Department	TIME	COMPOSITE ENDIGRAB			
Company Name: City of Kenosha		COMPOSITE START			
Address: 652 52nd St., Kenosha, WI 53140					

ITEM #	SAMPLE ID	COLLECTED	Preservatives	Ant.	Residual Chlorine (Y/N)	Project Number	Lab ID.	SAMPLE CONDITIONS	
								DATE	TIME
1	Trip Blank	WT G	8/14/19 12:00	2	X	001			
2	MW-3	WT G	8/14/19 12:20	5	X	002			
3	MW-4	WT G	8/14/19 12:40	5	X	003			
4	MW-4 DUP	WT G	8/14/19 12:40	5	X	004			
5	MW-1	WT G	8/14/19 13:30	5	X	005			
6	MW-2	WT G	8/14/19 14:00	5	X	006			
7									
8									
9									
10									
11									
12									

Additional Comments:

RELINQUISHED BY AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS

Temp in °C	PRINT Name of SAMPLER:	Mary Fannin	DATE Signed (MM DD YY)
Received in C	PRINT Name of SAMPLER:	Joel Mackinney	DATE Signed (MM DD YY)
Sealed Container	PRINT Name of SAMPLER:	Joel Mackinney	DATE Signed (MM DD YY)
Samples intact	PRINT Name of SAMPLER:	Mary Fannin	DATE Signed (MM DD YY)

Sample Preservation Receipt Form

Project # U0193123

Yes No MA

Client Name: AECOM

All containers needing preservation have been checked and noted below:

Lab Lot# of pH paper:

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

Pace Lab #	Container Type	Preservation Additives	Initial when completed:		Date/ Time:
			Jars	Vials	
001	Glass				
002	Plastic				
003	Glass		3	3	
004	Plastic		3	3	
005	Glass		3	3	
006	Plastic				
007	Glass				
008	Plastic				
009	Glass				
010	Plastic				
011	Glass				
012	Plastic				
013	Glass				
014	Plastic				
015	Glass				
016	Plastic				
017	Glass				
018	Plastic				
019	Glass				
020	Plastic				

Exceptions to preservation check: VOA, Coliform, TOC, TOH, O&G, W/DRO, Phenolics, Other.

Headspace in VOA Vials (>6mm): Yes No N/A * If yes look in headspace column

AG1U	1 liter amber glass	BPIU	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	WFPU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCl		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SPST	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:	



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# : 40193123

Courier: CS Logistics Fed Ex Speedee UPS Waltco

Client Pace Other: _____

Tracking #: _____



40193123

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: ROT Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Person examining contents:

Date: 8-16-19

Initials: SG

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: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 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		8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
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 type="checkbox"/> N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
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>427</u>	

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: 04

Date: 8/16/19

Page 2 of 30