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Our Reference
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Shelly Billingsley, MBA, P.E.
Director of Public Works
City of Kenosha
625 52nd Street
Kenosha, WI 53140

April 2019 Semi-annual Perimeter Groundwater Monitoring Report
Former Kenosha Engine Plant, 5555 30th Avenue, Kenosha, Wisconsin

Dear Ms. Billingsley

AECOM conducted a semi-annual groundwater sampling event on April 16 and 17, 2019, under Task Order 134-011519 for the City of Kenosha, at the former Kenosha Engine Plant (KEP). Seventeen perimeter groundwater monitoring wells (MW-31, MW-44, MW-101, MW-102, MW-103, MW-105, MW-107, MW-108 through MW-117), two piezometers (PZ-116 and PZ-118) and four wells at the Jockey site (MW-79 through MW-82) were sampled during the April 2019 event. PZ-117 was inadvertently not sampled in April 2019. PZ-117 had no detections in the previous two events, and it will be sampled again in October 2019.

Prior to sample collection, groundwater elevation measurements were collected from the sampled monitoring wells and piezometers. Depth to groundwater measurements and calculated elevations are provided in Table 1. The monitoring well and piezometer locations are depicted in Figure 1.

Groundwater flow at the KEP generally flows to the east-northeast and east-southeast across the site at the water table and to the northeast at the clay-till interface, based on the groundwater elevations using only the perimeter wells. These flow directions are consistent with the data provided in the KEP *Site Investigation Report* (AECOM, February 2015) and subsequent groundwater measurement events. Contoured groundwater elevations for April 2019, depicting groundwater flow, are shown in Figure 2 for the water table potentiometric surface and in Figure 3 for the potentiometric surface measured in the piezometers.

Groundwater samples were collected from the selected monitoring wells and piezometers using a low-flow sampling technique with a peristaltic pump and dedicated tubing for each well. Sampling procedures were consistent with those provided in the *KEP Groundwater Monitoring Plan – Revision 1* (AECOM July 22, 2015). Field parameters, including pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature, were measured during well purging and recorded following stabilization of each parameter. The field parameter measurements are included in Table 2.

Groundwater samples from the 23 monitoring wells or piezometers were submitted to Pace Analytical Services, Inc. (Pace), in Green Bay, Wisconsin, and analyzed for VOCs (SW846 Method 8260B). The groundwater analytical results were compared to the Wisconsin Administrative Code Ch. NR 140.10, Table 1, Public Heath Groundwater Quality Standards, enforcement standards (ES) and preventive action limit (PAL). The PAL is a concentration that is 10% (for carcinogenic, mutagenic or teratogenic compounds) to 20% of the enforcement standard. The PAL has been established as the concentration at which

notification to the WDNR is required. The ES is a health-risk based concentration and is equal to the US EPA's maximum contaminant level (MCL) where established. The groundwater VOC analytical results are included in Table 3. ES exceedances for VOCs are depicted in bold on Table 3 and on the site map in Figure 4. PAL exceedances for VOCs are shown in underlined italics. The laboratory analytical report is also attached.

VOCs were generally not detected in the perimeter wells except for MW-31, MW-101, MW-102, MW-114, PZ-116, and PZ-118 as well as MW-82 at the Jockey site. The following groundwater quality exceedances were identified in the groundwater samples analyzed in April 2019:

Enforcement standard exceedances	**Preventive action limit exceedances**
KEP site	
MW-31 – trichloroethene (TCE)	MW-31 – trans-1,2-Dichloroethene
MW-31 – cis-1,2-dichloroethene (cisDCE)	MW-31 – 1,1-Dichloroethene
MW-31 – vinyl chloride	MW-102 – TCE
MW-114 – vinyl chloride	
PZ-116 – vinyl chloride	
PZ-118 – vinyl chloride	
Jockey site	
MW-82 – TCE	MW-82 – trans-1,2-Dichloroethene
MW-82 – cisDCE	MW-82 – 1,1-Dichloroethene
MW-82 – vinyl chloride	

Concentration trends were evaluated for MW-31, MW-114 and PZ-118 on the northern property boundary. There is no discernable trend in MW-31 and the contaminant concentration fluctuations mirror the water level fluctuations, as shown on Figure 5. The concentrations in MW-114 in 2015/2016 appeared to mirror the water level fluctuations with a spike in TCE concentrations in April 2016, however in 2018 a second spike of the water table did not result in a similar spike in TCE concentrations. Continued monitoring is needed to evaluate if the lower level of TCE is the result of the contaminated soil removal that took place in 2016. Figure 6 shows MW-114 VOC concentrations over time. The concentration trends for cis-1,2-dichloroethene and vinyl chloride in PZ-118 show a reduction since 2014 (Figure 7) and the concentrations do not appear to have any correlation with groundwater elevations nor the soil remediation activities.

Concentration trends were also evaluated for the groundwater from MW-82 on the Jockey property (Figure 8). The last several sampling events have shown a correlation between TCE and cisDCE concentrations and groundwater levels.

In conclusion, the groundwater recovery systems are maintaining the groundwater contaminant plume on-site. Groundwater monitoring will continue on a semi-annual basis. Please contact us if you have questions.

Yours sincerely,

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 all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

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enclosures:

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Figure 3 – Potentiometric Surface – Perimeter Piezometers – April 2019

Figure 4 – VOCs Detected in Groundwater Above Enforcement Standards – April 2019

Figure 5 – MW-31 TCE Concentrations and Groundwater Elevations over Time

Figure 6 – MW-114 Analyte Concentrations and Groundwater Elevations over Time

Figure 7 – PZ-118 Analyte Concentrations and Groundwater Elevations over Time

Figure 8 – MW-82 Analyte Concentrations and Groundwater Elevations over Time

Laboratory Analytical Report

cc: Paul Grittner, WDNR Project Manager with Attachments
Kyle Rogers, USEPA, Brownfields Project Manager (electronic copy by email)

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-31		MW-44		MW-70		MW-71		MW-101		MW-102		MW-103	
Ground Elevation (ft)	624.45		624.49		623.49		623.57		624.01		624.18		625.74	
Top of PVC Casing (TOC) Elevation (ft)	627.42		624.194		623.17		623.35		623.46		623.66		625.33	
Top of Screen Elevation (ft)	615.72		619.724		616.19		616.25		620.56		621.06		622.04	
Screen Length (ft)	10		10		10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	21.7		14.47		16.98		17.1		12.9		12.6		13.29	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	11.41	616.01	10.19	614.00	6.54	616.63	7.02	616.33	5.40	618.06	4.92	618.74	5.10	620.23
9/22/2014	13.17	614.25	10.95	613.24	7.48	615.69	7.95	615.40	5.96	617.50	5.33	618.33	5.41	619.92
12/1/2014	13.13	614.29	11.20	612.99	7.64	615.53	8.06	615.29	6.07	617.39	5.38	618.28	5.45	619.88
3/20/2015	12.49	614.93	11.15	613.04	7.95	615.22	8.02	615.33	5.75	617.71	5.51	618.15	5.56	619.77
6/23/2015	12.18	615.24	NM	--	NM	--	7.19	616.16	5.44	618.02	5.06	618.60	5.25	620.08
9/21/2015	12.24	615.18	10.37	613.82	NM	--	NM	--	5.16	618.30	4.94	618.72	5.12	620.21
4/13/2016	9.89	617.53	9.51	614.68	NM	--	NM	--	5.24	618.22	4.83	618.83	5.05	620.28
11/28/2016	12.51	614.91	10.80	613.39	NM	--	8.10	615.25	6.50	616.96	4.80	618.86	NM	--
5/16/2018	9.50	617.92	9.71	614.48	NM	--	NM	--	4.85	618.61	3.41	620.25	3.59	621.74
10/17/2018	11.71	615.71	9.92	614.27	NM	--	NM	--	5.58	617.88	4.48	619.18	4.77	620.56
4/16/2019	12.18	615.24	10.16	614.03	NM	--	NM	--	5.74	617.72	4.70	618.96	4.81	620.52

ft = feet
[A] = as measured inside well
NI = Not Installed
NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-105		MW-107		MW-108		MW-109		MW-110		MW-111		MW-112	
Ground Elevation (ft)	623.87		625.74		623.742		625.19		622.88		621.41		621.61	
Top of PVC Casing (TOC) Elevation (ft)	623.35		624.59		623.262		624.62		622.42		621.04		621.18	
Top of Screen Elevation (ft)	619.65		620.19		619.162		618.37		618.42		618.44		617	
Screen Length (ft)	10		10		10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	13.7		14.4		14.1		16.25		14		12.6		14.18	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	8.20	615.15	NM	--	4.38	618.88	13.71	610.91	5.69	616.73	6.71	614.33	4.36	616.82
9/22/2014	8.46	614.89	10.74	613.85	7.74	615.52	13.88	610.74	7.20	615.22	7.56	613.48	5.41	615.77
12/1/2014	8.58	614.77	8.36	616.23	7.10	616.16	13.86	610.76	7.18	615.24	7.31	613.73	4.91	616.27
3/20/2015	8.42	614.93	10.94	613.65	3.53	619.73	13.96	610.66	5.48	616.94	7.24	613.80	4.41	616.77
6/23/2015	7.83	615.52	9.73	614.86	5.62	617.64	13.73	610.89	6.14	616.28	6.88	614.16	4.42	616.76
9/21/2015	6.92	616.43	9.77	614.82	6.60	616.66	13.73	610.89	6.67	615.75	7.04	614.00	4.18	617.00
4/13/2016	7.61	615.74	9.13	615.46	3.49	619.77	13.61	611.01	4.93	617.49	6.26	614.78	3.72	617.46
11/28/2016	8.54	614.81	NM	--	7.20	616.06	13.88	610.74	7.20	615.22	7.69	613.35	4.78	616.40
5/16/2018	7.86	615.49	9.26	615.33	2.92	620.34	13.52	611.10	3.24	619.18	5.39	615.65	2.04	619.14
10/17/2018	7.64	615.71	9.35	615.24	4.69	618.57	13.65	610.97	5.43	616.99	6.79	614.25	3.72	617.46
4/16/2019	8.17	615.18	9.92	614.67	3.64	619.62	13.73	610.89	5.78	616.64	6.67	614.37	4.10	617.08

ft = feet
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-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-113		MW-114		MW-115		MW-116		PZ-116		MW-117		PZ-117	
Ground Elevation (ft)	623.17		622.82		623.71		623.29		623.27		621.89		621.95	
Top of PVC Casing (TOC) Elevation (ft)	622.81		622.28		623.39		622.73		622.87		621.59		621.51	
Top of Screen Elevation (ft)	619.3		618.85		619.23		619.69		596.45		616.67		600.92	
Screen Length (ft)	10		10		10		10		2.5		10		2.5	
TOC to Bottom of Well (ft)[A]	13.51		13.43		14.16		13.04		28.92		14.92		23.09	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	9.60	613.21	6.41	615.87	5.21	618.18	6.61	616.12	7.15	615.72	7.22	614.37	6.49	615.02
9/22/2014	10.78	612.03	8.54	613.74	6.98	616.41	8.27	614.46	8.13	614.74	8.44	613.15	8.11	613.40
12/1/2014	10.61	612.20	8.44	613.84	6.84	616.55	7.94	614.79	8.11	614.76	8.18	613.41	8.10	613.41
3/20/2015	10.50	612.31	8.53	613.75	5.78	617.61	6.75	615.98	7.72	615.15	7.85	613.74	7.65	613.86
6/23/2015	NM	--	8.36	613.92	5.82	617.57	7.16	615.57	7.45	615.42	7.82	613.77	7.59	613.92
9/21/2015	9.93	612.88	8.40	613.88	5.90	617.49	7.05	615.68	7.91	614.96	7.80	613.79	7.95	613.56
4/13/2016	8.95	613.86	5.45	616.83	4.98	618.41	4.99	617.74	6.32	616.55	7.10	614.49	6.33	615.18
11/28/2016	11.15	611.66	8.34	613.94	6.28	617.11	8.05	614.68	8.32	614.55	8.19	613.40	8.32	613.19
5/16/2018	8.61	614.20	5.60	616.68	4.86	618.53	3.11	619.62	5.07	617.80	5.88	615.71	5.78	615.73
10/17/2018	10.16	612.65	8.12	614.16	5.09	618.30	6.23	616.50	7.00	615.87	7.71	613.88	7.37	614.14
4/16/2019	10.42	612.39	8.37	613.91	5.60	617.79	6.12	616.61	7.16	615.71	7.23	614.36	7.17	614.34

ft = feet
[A] = as measured inside well
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-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	PZ-118		MW-206	
Ground Elevation (ft)	622.33		625.52	
Top of PVC Casing (TOC) Elevation (ft)	622.05		627.88	
Top of Screen Elevation (ft)	602.71		620.89	
Screen Length (ft)	2.5		10	
TOC to Bottom of Well (ft)[A]	21.84		16.99	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	6.30	615.75	10.80	617.08
9/22/2014	8.21	613.84	10.99	616.89
12/1/2014	8.29	613.76	11.12	616.76
3/20/2015	7.82	614.23	11.08	616.80
6/23/2015	6.96	615.09	10.46	617.42
9/21/2015	7.24	614.81	9.99	617.89
4/13/2016	5.44	616.61	5.33	622.55
11/28/2016	8.19	613.86	NM	--
5/16/2018	5.41	616.64	5.28	622.60
10/17/2018	7.20	614.85	4.98	622.90
4/16/2019	7.49	614.56	NM	--

ft = feet
[A] = as measured inside well
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NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-79		MW-80		MW-81		MW-82	
Ground Elevation (ft)	624.55		623.7		624.05		624.7	
Top of PVC Casing (TOC) Elevation (ft)	624.39		623.5		623.89		624.5	
Top of Screen Elevation (ft)	617.89		617		617.39		618	
Screen Length (ft)	10		10		10		10	
TOC to Bottom of Well (ft)[A]	16.5		16.5		16.5		16.5	
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)
9/30/2014	8.50	615.89	4.78	618.72	9.50	614.39	10.60	613.90
12/9/2014	9.19	615.20	5.70	617.80	9.39	614.50	10.65	613.85
3/20/2015	9.18	615.21	5.54	617.96	7.49	616.40	9.90	614.60
9/21/2015	8.95	615.44	6.05	617.45	9.14	614.75	10.61	613.89
4/13/2016	8.03	616.36	5.85	617.65	8.04	615.85	9.81	614.69
12/5/2016	9.75	614.64	7.65	615.85	10.25	613.64	11.20	613.30
5/17/2018	7.34	617.05	3.76	619.74	7.81	616.08	9.81	614.69
10/18/2018	9.59	614.80	6.39	617.11	10.27	613.62	11.80	612.70
4/17/2019	8.73	615.66	4.37	619.13	7.78	616.11	10.51	613.99

ft = feet

[A] = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

Note: 5-17-18 the cap on MW-80 was loose and asphalt/gravel was obtained during purging.

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-31	5/28/2014	5.87	2.61	-148.3	1.507	9.14	616.01
	9/25/2014	6.87	0.49	30.0	1.525	14.78	614.25
	11/30/2016	7.52	1.23	79.9	1.287	11.47	614.91
	5/16/2018	7.06	6.82	37.30	1.473	13.58	617.92
	10/18/2018	6.91	2.37	42.4	1.879	15.09	615.71
	4/16/2019	6.81	0.33	150.3	1.924	12.89	615.24
MW-44	5/21/2012	7.33	0.42	-71.2	2.068	12.98	613.55
	5/22/2014	6.73	1.06	188.3	4.129	11.33	614.00
	10/18/2018	7.90	0.16	-102.7	2.562	19.61	
	9/30/2014	6.89	0.35	95.5	4.158	16.27	613.24
	12/4/2014	7.03	0.89	-8.2	2.586	12.29	612.99
	9/23/2015	6.97	0.86	16.9	4.675	18.05	613.82
	4/14/2016	7.05	4.92	57.1	4.846	9.2	614.68
	10/18/2018	6.83	0.20	-117.9	3.118	19.42	
	11/30/2016	7.56	1.19	-6.5	1.789	12.01	613.39
	5/17/2018	7.13	1.98	25.0	2.627	12.28	614.48
	10/18/2018	7.22	0.87	63.9	5.294	17.35	614.27
	4/16/2019	6.86	1.13	176.4	4.491	11.21	614.03
MW-101	1/23/2012	7.68	4.28	3.50	0.756	8.8	617.03
	5/20/2014	6.95	2.8	-156.30	1.454	14.07	618.06
	9/29/2014	7.27	0.81	34.80	1.34	20.46	617.50
	12/5/2014	7.3	1.22	-19	1.26	12.1	617.39
	9/22/2015	7.29	2.19	29.2	1.411	20.62	618.30
	4/15/2016	7.51	4.75	2.8	1.383	9.73	618.22
	11/28/2016	7.26	1.23	11.2	1.481	13.14	616.96
	5/16/2018	8.98	4.3	-75.4	1.514	12.75	618.61
	10/17/2018	7.18	2.41	82.6	1.289	15.61	617.88
	4/16/2019	7.15	4.74	168.07	1.490	11.26	617.72
MW-102	1/26/2012	7.09	0.67	-74.20	1.214	9.09	617.81
	5/16/2014	6.98	3.56	-48.50	2.320	8.98	618.74
	9/29/2014	7.01	0.14	-77.10	1.345	19.52	618.33
	12/4/2014	7.29	0.39	-56.3	1.509	11.35	618.28
	3/25/2015	7.23	0.54	-23.3	1.38	5.87	618.15
	9/24/2015	7.05	0.71	-47.2	1.617	18.76	618.72
	4/15/2016	7.31	0.47	38.2	2.414	9.28	618.83
	11/29/2016	7.53	0.54	148	1.245	15.01	618.86
	5/16/2018	7.35	7.36	38.10	1.829	11.87	620.25
	10/17/2018	7.19	0.68	13.80	0.891	15.21	619.18
	4/16/2019	8.09	2.10	60.6	3.176	9.61	618.96
MW-103	5/16/2018	9.15	2.35	-83.60	1.221	12.20	621.74
	10/17/2018	NM	0.4	439.60	1.463	17.21	620.56
	4/16/2019	8.31	1.44	39.40	0.828	8.61	620.52

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-105	1/24/2012	6.89	0.38	-87.00	2.997	11.06	613.53
	5/20/2019	6.48	0.47	-237.20	3.898	13.43	615.15
	9/30/2014	7.08	0.14	-62.10	2.787	16.75	614.89
	12/5/2014	6.70	0.6	-53.10	2.368	12.78	614.77
	9/22/2015	7.09	0.7	-9.10	0.899	18.25	616.43
	4/14/2016	6.91	2.68	-23.10	2.731	9.42	615.74
	11/28/2016	6.79	0.61	-90.50	1.845	13.23	614.81
	5/16/2018	7.02	1.19	-96.70	1.893	13.72	615.49
	10/17/2018	6.71	0.11	-41.00	2.254	15.18	615.71
	4/16/2019	9.10	0.3	-20.30	1.408	9.23	615.18
MW-107	5/16/2018	9.36	1.43	-84.40	0.940	11.84	615.33
	10/17/2018	6.63	0.3	-31.20	1.488	16.73	615.24
	4/16/2019	8.39	0.61	31.10	0.914	9.70	614.67
MW-108	5/21/2012	7.16	1.73	-65.00	4.583	13.19	616.56
	5/23/2014	6.67	4.39	188.30	6.796	11.73	618.88
	9/30/2014	6.85	0.36	80.90	4.932	16.16	615.52
	12/4/2014	6.94	1.66	-3	4.386	10.4	616.16
	9/23/2015	6.87	0.96	27.8	4.504	18.23	616.66
	4/14/2016	7.33	4.65	90.8	4.674	8.53	619.77
	11/30/2016	7.19	0.87	172.3	3.341	13.4	616.06
	5/17/2018	6.97	4.42	108.9	3.831	12.57	620.34
	10/17/2018	7.08	0.64	43.7	3.751	16.91	618.57
	4/16/2019	6.9	6.00	170.53	4.499	13.09	619.62
MW-109	6/5/2014	6.23	0.44	-26.20	0.831	11.59	610.91
	9/23/2014	7.01	0.45	151.00	1.244	15.00	610.74
	12/5/2014	6.7	0.75	-63.70	1.303	12.41	610.76
	9/23/2015	7.05	0.34	-89.00	1.737	15.13	610.89
	4/15/2016	7.21	0.64	11.40	1.641	10.83	611.01
	11/29/2016	7.39	0.82	-1.80	1.326	13.82	610.74
	5/17/2018	7.04	0.41	-35.20	0.924	12.05	611.10
	10/18/2018	7.03	0.38	-100.10	0.895	14.03	610.97
	4/16/2019	8.66	0.12	4.30	0.597	9.96	610.89
MW-110	5/22/2014	7.02	9.23	59.00	0.538	10.15	616.73
	9/23/2014	7.25	0.6	165.00	0.755	17.50	615.22
	12/5/2014	7.26	2.7	-2.00	0.639	11.57	615.24
	9/23/2015	7.05	0.68	239.00	0.557	23.82	615.75
	4/14/2016	7.51	9.57	21.10	0.598	8.69	617.49
	11/29/2016	7.59	1.95	108.00	0.498	14.39	615.22
	5/17/2018	7.26	9.19	105.60	0.436	10.90	619.18
	10/18/2018	7.99	6.51	55.60	0.762	16.60	616.99
	4/16/2019	8.46	4.26	55.50	1.956	8.05	616.64
MW-111	5/21/2014	7.05	1.81	74.30	0.977	10.83	614.33
	9/23/2014	7.29	0.69	180.00	0.634	18.10	613.48
	12/5/2014	7.3	1.38	-7.80	0.605	12.12	613.73
	9/23/2015	7.88	0.75	169.00	0.449	22.68	614.00
	4/14/2016	7.74	2.02	22.00	0.527	9.06	614.78
	11/29/2016	7.23	3.82	64.70	0.34	14.16	613.35
	5/17/2018	7.15	0.76	153.90	0.686	11.63	615.65
	10/18/2018	6.9	0.2	-111.00	0.930	14.47	614.25
	4/16/2019	8.31	3.64	59.20	1.977	8.28	614.37

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-112	11/3/2011	6.85	0.5	-2.50	2.661	15.52	615.47
	5/21/2014	7.19	0.74	43.10	2.699	11.28	616.82
	9/24/2014	7.05	0.5	68.40	2.26	17.78	615.77
	12/5/2014	7.25	3.69	-11.3	1.124	10.85	616.27
	9/22/2015	7.18	3.55	4	1.482	17.92	617.00
	4/15/2016	7.41	3.08	-13.7	1.49	9.07	617.46
	11/29/2016	7.36	4	59.7	0.73	13.97	616.40
	5/17/2018	7.11	2.29	174.1	1.208	12.15	619.14
	10/18/2018	7.08	1.13	-13.6	1.676	14.94	617.46
	4/16/2019	7.01	2.41	207.0	1.381	10.28	617.08
MW-113	8/18/2011	7.27	0.73	-7.10	2.699	16.82	612.11
	5/28/2014	7.11	1.73	-208.70	1.586	11.29	613.21
	9/25/2014	7.7	0.24	283.00	3.400	16.40	604.03
	12/5/2014	7.18	2.1	-24.9	1.992	11.72	612.20
	3/25/2015	7.24	2.03	52.3	2.812	8.32	612.31
	9/22/2015	7.23	0.8	-24.5	1.755	17.19	612.88
	4/15/2016	7.45	3.55	187.9	1.459	9.01	613.86
	11/29/2016	7.42	1.06	175.6	1.296	13.98	611.66
	5/16/2018	7.25	6.33	37.3	1.144	11.1	614.20
	10/18/2018	7.85	0.44	73.6	1.449	15.44	612.65
	4/16/2019	7.16	3.07	170.13	1.939	11.00	612.39
MW-114	8/18/2011	7.44	0.32	-97.10	1.159	15.69	613.45
	5/28/2014	6.95	4.13	-188.70	1.241	10.72	615.87
	9/29/2014	7.21	0.18	-109.40	0.180	15.73	613.74
	12/4/2014	7.29	0.23	-89.5	0.911	11.28	613.84
	3/25/2015	7.34	0.32	-79.4	1.192	7.05	613.75
	9/22/2015	7.13	0.3	-113.6	1.177	16.35	613.88
	4/15/2016	6.94	4.24	-3.3	1.464	8.12	616.83
	11/28/2016	7.22	0.75	-110.9	0.81	12.68	613.94
	5/16/2018	7.3	-	-36.5	1.102	11.99	616.68
	10/17/2018	7.16	0.2	-109.6	1.115	14.22	614.16
	4/16/2019	7.09	0.14	-79.59	1.041	9.66	613.91
MW-115	8/18/2011	7.48	1.61	-14.00	0.985	17.97	616.45
	5/28/2014	6.37	6.38	-144.70	1.191	9.94	618.18
	9/29/2014	7.07	1.17	105.10	0.808	17.44	616.41
	12/4/2014	7.21	3.55	-15.7	0.715	10.84	616.55
	9/22/2015	7.08	1.98	71.8	0.941	18.06	617.49
	4/15/2016	7.57	5.24	180.7	0.731	8.16	618.41
	11/28/2016	7.17	3.66	85.7	0.731	12.9	617.11
	5/16/2018	7.16	5.67	48.9	0.861	11.56	618.53
	10/17/2018	6.96	3.8	24.3	0.888	15.73	618.30
	4/16/2019	7.13	6.04	26.45	1.089	8.79	617.79
MW-116	11/8/2011	6.41	1.44	-25.80	0.776	13.67	613.64
	5/22/2014	6.77	3.18	67.30	0.649	9.32	616.12
	9/23/2014	7.07	0.39	151.00	0.808	15.20	614.46
	12/2/2014	7	0.88	11.1	0.642	10.45	614.79
	9/23/2015	6.86	2.06	45.9	0.993	15.79	615.68
	4/14/2016	7.32	6.16	64.7	0.761	9.11	617.74
	11/29/2016	7.23	1.59	156.2	0.682	13.25	614.68
	5/17/2018	6.97	7.18	124.9	0.529	10.84	619.62
	10/18/2018	6.85	1.99	-39.9	0.884	14.62	616.50
	4/17/2019	7.56	4.46	68.4	0.537	7.49	616.61

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
PZ-116	11/8/2011	6.23	0.4	-58.50	1.808	12.23	613.76
	5/22/2014	6.98	0.29	38.50	2.01	11.63	615.72
	9/23/2014	7.11	0.25	165.00	2.05	14.40	614.74
	12/2/2014	7.06	0.24	-79.6	1.714	10.36	614.76
	9/23/2015	6.96	0.26	-104.8	2.46	13.68	614.96
	4/14/2016	7.03	0.99	-41.1	2.564	10.74	616.55
	11/29/2016	6.97	0.75	-102.8	0.792	12.47	614.55
	5/17/2018	6.97	0.4	-27.2	1.838	11.62	617.80
	10/18/2018	6.93	0.8	-98.8	2.338	14.22	615.87
	4/17/2019	8.00	0.38	-2.4	1.865	10.23	615.71
MW-117	5/21/2014	6.91	2.73	42.30	1.237	12.10	614.37
	9/24/2014	7.09	0.61	51.80	1.253	15.94	613.15
	12/4/2014	6.81	0.28	-48.30	1.202	12.6	613.41
	3/24/2015	7.15	2.69	-9.40	1.033	7.71	613.74
	9/23/2015	6.99	0.5	-102.60	1.276	16.55	613.79
	4/14/2016	7.15	1.3	-44.70	1.065	9.52	614.49
	11/29/2016	7.13	0.7	-67.60	0.887	14.58	613.40
	5/17/2018	7.05	3.02	34.20	0.849	11.74	615.71
	10/18/2018	7.86	0.18	-51.40	0.892	14.93	613.88
	4/17/2019	6.93	2.80	35.96	1.413	8.30	614.36
PZ-117	5/21/2014	6.98	0.11	-12.00	0.882	11.48	615.02
	9/24/2014	7.05	0.43	-44.00	1.501	14.53	613.40
	12/4/2014	6.9	0.48	-33.10	1.188	12.52	613.41
	3/24/2015	7.3	0.54	-44.40	0.443	8.22	613.86
	9/23/2015	6.94	0.3	-116.10	1.635	14.52	613.56
	4/14/2016	7.31	0.54	-18.90	1.692	11	615.18
	11/29/2016	7.49	0.41	-42.70	1.353	13.7	613.19
	5/17/2018	7.05	0.51	-13.50	1.042	12.41	615.73
	10/18/2018	7.71	0.35	-13.60	1.283	13.66	614.14
	4/17/2019	NM	NM	NM	NM	NM	614.34
PZ-118	5/28/2014	6.73	3.17	-201.00	1.702	11.10	615.75
	9/25/2014	7.07	0.11	301.00	5.500	14.80	613.84
	12/5/2014	7.1	0.76	-56.20	1.504	12.69	613.76
	3/25/2015	7.15	1.03	-37.10	2.089	8.66	614.23
	9/22/2015	7	0.24	-95.10	2.050	16.30	614.81
	4/15/2016	7.13	2.52	-60.30	2.198	9.50	616.61
	11/28/2016	7.08	2.55	-3.10	1.404	12.87	613.86
	5/16/2018	7.12	0.88	-59.90	1.292	12.79	616.64
	10/17/2018	7.4	0.19	-37.80	1.714	14.34	614.85
	4/17/2019	6.99	1.39	33.87	1.742	8.81	614.56

** Groundwater elevations from single day measuring event, rather than sampling date

mg/l = milligrams per liter. msl = mean sea level mS/cm = microSiemens per centimeter
ft = feet mV = millivolts

Table 2
Measured Field Parameters
Jockey Site Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-79	9/30/2014	7.15	0.28	-70.8	3.903	18.80	615.89
Jockey	12/5/2016	8.11	0.61	-153.7	3.682	13.15	614.64
	5/19/2018	7.13	0.29	-54.6	3.572	14.61	617.05
	10/18/2018	6.84	0.27	-109.3	6.524	19.15	614.80
	4/17/2019	8.07	0.27	-34.1	5.119	11.31	615.66
MW-80	9/30/2014	7.23	0.17	-115.1	4.412	19.74	618.72
Jockey	12/5/2016	8.16	0.53	-154.4	3.164	13.67	615.85
	5/19/2018	7.51	0.15	-83.2	0.182	14.27	619.74
	10/18/2018	7.90	0.16	-102.7	2.562	19.61	617.11
	4/17/2019	7.02	1.17	-76.3	3.184	11.47	619.13
MW-81	9/30/2014	6.98	0.34	-85.5	2.53	18.36	614.39
Jockey	12/5/2016	7.91	0.64	-137.0	2.67	12.66	613.64
	5/19/2018	7.02	0.38	-47.4	2.558	14.73	616.08
	10/18/2018	6.83	0.20	-117.9	3.118	19.42	613.62
	4/17/2019	6.76	0.09	-55.5	2.977	11.13	616.11
MW-82	9/30/2014	7.06	0.24	-89.2	4.205	19.64	613.90
	12/5/2016	8.07	0.52	-145.7	4.223	14.17	613.30
	5/19/2018	7.25	0.23	-67.9	3.011	14.82	614.69
	10/18/2018	7.83	0.21	-89.6	3.824	21.28	612.70
	4/17/2019	8.8	0.10	-50.1	2.982	11.49	613.99

mg/l = milligrams per liter. msl = mean sea level mS/cm = microSiemens per centimeter
ft = feet mV = millivolts

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-31	5/28/2014	< 2.5	1.9 J	*3.2 J*	< 12.2	< 1.9	< 2.5	**79.2**	< 0.87	< 2.5	*28.8*	**499**	< 0.88
	9/25/2014	< 0.5	< 0.24	*1.7 J*	< 2.4	< 0.37	< 0.5	**97.8 J**	< 0.17	< 0.5	*26.1 J*	**63.8 J**	< 0.18
	12/3/2014	< 0.5	0.46 J	*2.9*	< 2.4	< 0.37	< 0.5	**106**	< 0.17	< 0.5	*35*	**116**	**0.33 J**
	3/24/2015	< 2.5	< 1.2	*2.8 J*	< 12.2	< 1.9	< 2.5	**79.8 J**	< 0.87	< 2.5	*26.9*	**361**	< 0.88
	11/30/2016	< 1	< 0.48	*2.9*	< 4.9	< 0.75	< 1	**98.6**	< 0.35	< 1	*42.7*	**91.8**	**0.51 J**
	5/16/2018	< 5.0	< 2.4	< 4.1	< 2.3	< 3.7	< 5.0	*27*	< 1.7	< 5.0	15.0	**807**	< 1.8
	10/17/2018	< 0.98	< 1.1	*1.3 J*	< 3.9	< 5.4	< 8.8	*17.9*	< 5.0	< 1.3	9.6 J	**470**	< 0.70
	4/16/2019	< 0.24	0.31 J	*5.4*	< 0.97	< 1.3	< 2.2	**99.1**	< 1.2	< 0.33	*70.6*	**117**	**0.37 J**
MW-44	5/21/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/23/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/30/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-70	11/4/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	0.31 J	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
MW-71	11/4/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
MW-101	1/23/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/20/2014	0.63 J	0.25 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	1.2	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	0.78 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	0.99 J	0.42 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	0.51 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	0.79 J	0.65 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	0.86 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	0.82 J	0.35 J	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	0.67 J	0.27 J	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-102	1/26/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	1/26/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/16/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/15/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.23** J
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	*1.7*	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	*0.62* J	< 0.17
MW-102 DUP	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
MW-103	5/16/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-105	1/24/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/16/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/20/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Bromo methane (ug/L)	Chloro ethane (ug/L)	Chloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)
MW-107	7/15/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-108	5/21/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/23/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/30/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-108 DUP	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-109	6/5/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Bromo methane (ug/L)	Chloro ethane (ug/L)	Chloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)
MW-110	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-111	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-112	11/3/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	1.3	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-113	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/28/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/25/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-114	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	0.33 J	*8.7*	0.73 J	< 0.45	< 0.89	**5.5**	**30.4**
	4/9/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	3.1	< 0.61	< 0.45	< 0.89	*0.67 J*	**21.1**
	5/28/2014	2.6	1.7	< 0.41	< 2.4	0.55 J	< 0.5	*9.5*	0.21 J	< 0.5	0.61 J	**26.7**	**1.4**
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.8	< 0.17	< 0.5	< 0.26	< 0.33	**32.1**
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4.9	0.24 J	< 0.5	2.3 J	*0.84 J*	**24.8 J**
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	2.8	0.18 J	< 0.5	0.36 J	< 0.33	**16.7**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4.8	0.5 J	< 0.5	0.79 J	< 0.33	**19.5**
	4/15/2016	16.1	5.8	*0.82* J	< 2.4	< 0.37	< 0.5	*49*	< 0.17	*1*	5.8	**270**	**5.5**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.9	< 0.17	< 0.5	0.75 J	< 0.33	**24**
	5/16/2018	3.3	1.3	< 0.41	< 2.4	< 0.37	< 0.50	3.9	< 0.17	< 0.50	0.57 J	**10.4**	**8.6**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	3.3	< 1.2	< 0.33	< 1.1	< 0.26	**14.1**
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	2.1	< 1.2	< 0.33	< 1.1	< 0.26	**10.1**
MW-114 DUP	5/28/2014	2.6	1.6	< 0.41	< 2.4	0.55 J	< 0.5	*9.5*	0.24 J	< 0.5	0.62 J	**27.2**	**1.5**
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.6	< 0.17	< 0.5	0.44 J	< 0.33	**30.6**
	12/4/2014	< 0.5	0.28 J	< 0.41	< 2.4	< 0.37	< 0.5	5.4	< 0.17	< 0.5	0.52 J	*1.2*	**17.8 J**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.6	0.47 J	< 0.5	< 0.26	< 0.33	**15.3**
	4/15/2016	15.9	5.7	*0.85* J	< 2.4	< 0.37	< 0.5	*49.1*	< 0.17	*1.1*	5.9	**273**	**5.8**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4	< 0.17	< 0.5	0.69 J	< 0.33	**25.2**
	5/16/2018	3.4	1.3	< 0.41	< 2.4	< 0.37	< 0.50	4.2	< 0.17	< 0.50	0.68 J	**11.5**	**7.8**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	3.3	< 1.2	< 0.33	< 1.1	< 0.26	**14.1**
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.7	< 1.2	< 0.33	< 1.1	< 0.26	**10.7**
MW-115	8/18/2011	< 0.9	< 0.75	< 0.57	*1.3*	< 0.97	0.4 J	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/9/2012	1.6	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/28/2014	1.2	0.42 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	0.91 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	0.71 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	0.98 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	0.77 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	0.71 J	0.27 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	0.72 J	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-116	11/8/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/11/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
PZ-116	11/8/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/11/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.3 J**
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.32** J
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.4** J
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	**0.76** J
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	**0.32** J
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	**0.61** J
MW-117	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
PZ-117	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	**0.64 J**
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.95 J**
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.95 J**
	3/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.66 J**
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.51** J
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.29** J
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
PZ-118	5/28/2014	< 0.5	0.41 J	0.65 J	< 2.4	< 0.37	< 0.5	**295**	< 0.17	< 0.5	2.3	< 0.33	**92.3**
	9/25/2014	< 0.5	0.39 J	< 0.41	< 2.4	< 0.37	< 0.5	**134**	< 0.17	< 0.5	1.6	< 0.33	**192**
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*21.4*	< 0.17	< 0.5	0.81 J	< 0.33	**62.8**
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*20.4*	< 0.17	< 0.5	< 0.26	< 0.33	**48.1**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*21.5*	< 0.17	< 0.5	< 0.26	< 0.33	**37.2**
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*8.9*	< 0.17	< 0.5	0.31 J	< 0.33	**14.6**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*10.4*	< 0.17	< 0.5	0.78 J	< 0.33	**5.4**
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	4.7	< 0.17	< 0.50	< 0.26	< 0.33	**22.1**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	5.2	< 1.2	< 0.33	< 1.1	< 0.26	**17.3**
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	2.6	< 1.2	< 0.33	< 1.1	< 0.26	**1.8**
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Notes:

ug/L = micrograms per liter

J = Estimated value

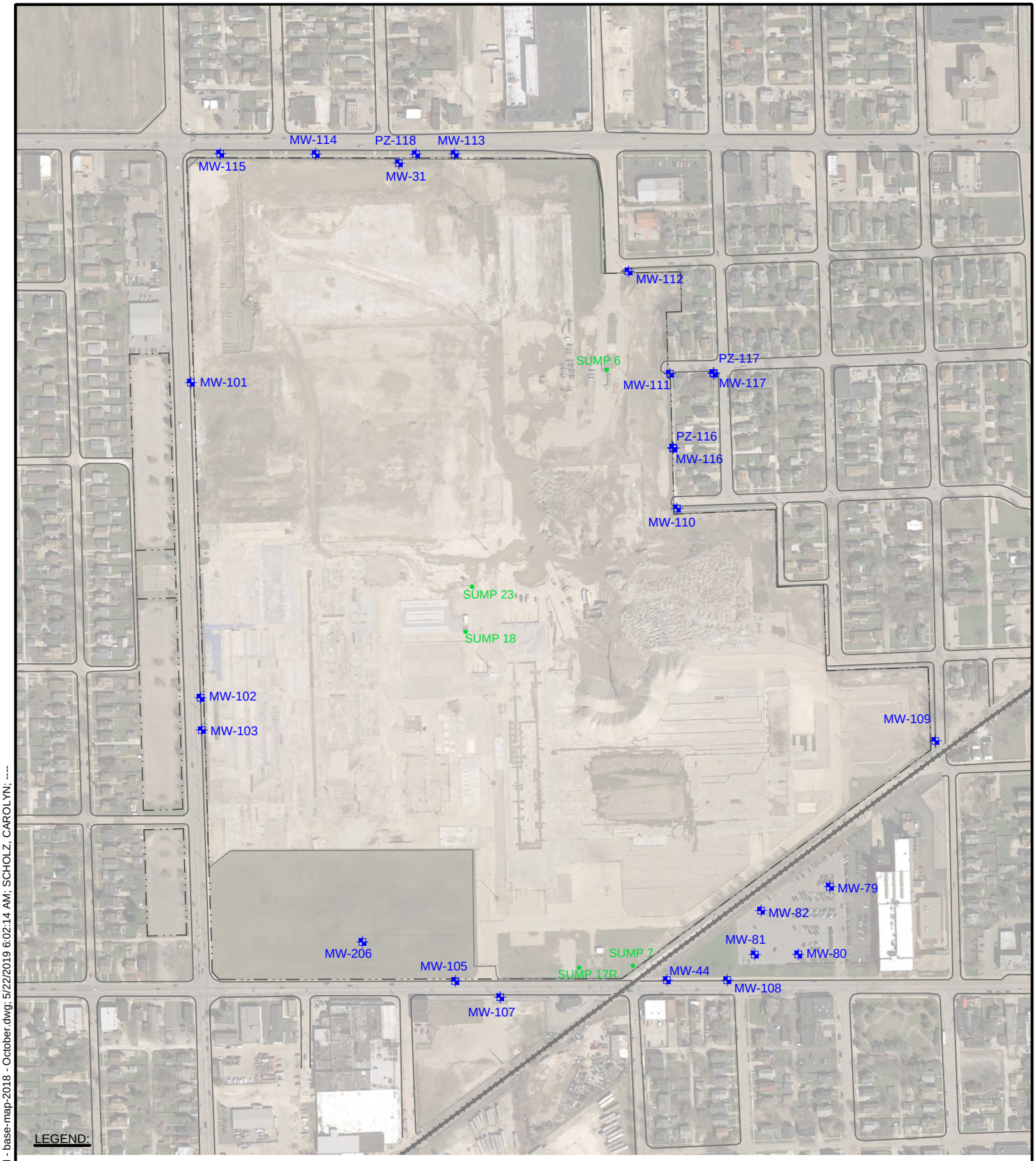
PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are *underlined italics*.

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

Table 3
Detected Volatile Organic Compounds in Groundwater
Jockey Site Monitoring Wells

Location	Sample Date	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Benzene (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Ethylbenzene (ug/L)	Isopropylbenzene (Cumene) (ug/L)	Methylene Chloride (ug/L)	n-Butylbenzene (ug/L)	n-Propylbenzene (ug/L)	Naphthalene (ug/L)	p-Isopropyltoluene (ug/L)	sec-Butylbenzene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-79 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	NPD	<0.20	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	<0.45	<0.32	<0.30
	10/6/2008	NPD	NPD	NPD	NPD	NPD	<0.20	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	<0.45	<0.32	<0.30
	9/30/2014	<0.24	<0.41	<0.5	<0.37	<0.5	<0.26	<0.5	<0.14	<0.23	<0.5	<0.5	<2.5	<0.5	<2.2	<0.26	<0.33	<0.18
	12/9/2014	<0.24	<0.41	<0.5	<0.37	<0.5	<0.26	<0.5	<0.14	<0.23	<0.5	<0.5	<2.5	<0.5	<2.2	<0.26	<0.33	<0.18
	3/25/2015	<0.24	<0.41	<0.5	<0.37	<0.5	<0.26	<0.5	<0.14	<0.23	<0.5	<0.5	<2.5	<0.5	<2.2	<0.26	<0.33	<0.18
	5/17/2018	<0.24	<0.41	<0.50	<0.37	<0.50	<0.26	<0.50	<0.14	<0.23	<0.50	<0.50	<2.5	<0.50	<2.2	<0.26	<0.33	<0.18
	10/18/2018	<0.27	<0.24	<0.25	<1.3	<2.2	<0.27	<0.22	<0.39	<0.58	<0.71	<0.81	<1.2	<0.80	<0.85	<1.1	<0.26	<0.17
	4/17/2019	<0.27	<0.24	<0.25	<1.3	<2.2	<0.27	<0.22	<0.39	<0.58	<0.71	<0.81	<1.2	<0.80	<0.85	<1.1	<0.26	<0.17
MW-80 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	NPD	<0.20	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	<0.45	<0.32	<0.30
	10/6/2008	NPD	NPD	NPD	NPD	NPD	<0.20	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	<0.45	<0.32	<0.30
	9/30/2014	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	0.48 J	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	< 0.26	0.4 J	< 0.18
	12/9/2014	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	< 0.26	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	< 0.26	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.24	< 0.41	< 0.50	< 0.37	< 0.50	< 0.26	< 0.50	< 0.14	< 0.23	< 0.50	< 0.50	< 2.5	< 0.50	< 2.2	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.27	< 0.24	< 0.25	< 1.3	< 2.2	< 0.27	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	< 1.1	< 0.26	< 0.17
	4/17/2019	< 0.27	< 0.24	< 0.25	< 1.3	< 2.2	< 0.27	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	< 1.1	< 0.26	< 0.17
MW-81 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	NPD	**71.1**	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	14.5	*1.3*	**15.8**
	10/6/2008	NPD	NPD	NPD	NPD	NPD	*45.5*	NPD	NPD	<1.0	NPD	NPD	NPD	NPD	NPD	14.6	<0.32	**12**
	9/30/2014	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	*29.5*	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	3.8	< 0.33	**2.8**
	12/9/2014	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	*14.4*	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	1.7	< 0.33	**1.6**
	3/25/2015	< 0.24	< 0.41	< 0.5	< 0.37	< 0.5	*9.6*	< 0.5	< 0.14	< 0.23	< 0.5	< 0.5	< 2.5	< 0.5	< 2.2	2.5	< 0.33	**6.1**
	5/17/2018	< 0.24	< 0.41	< 0.50	< 0.37	< 0.50	2	< 0.50	< 0.14	< 0.23	< 0.50	< 0.50	< 2.5	< 0.50	< 2.2	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.27	< 0.24	< 0.25	< 1.3	< 2.2	0.89 J	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	< 1.1	< 0.26	< 0.17
	4/17/2019	< 0.27	< 0.24	< 0.25	< 1.3	< 2.2	< 0.27	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	< 1.1	< 0.26	< 0.17
MW-82 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	NPD	**1970**	NPD	NPD	<50	NPD	NPD	NPD	NPD	NPD	*75.3*	**4,670**	**62.6**
	10/6/2008	NPD	NPD	NPD	NPD	NPD	**1650**	NPD	NPD	**88.8**	NPD	NPD	NPD	NPD	NPD	*61.3*	**2,970**	**35.8**
	9/30/2014	< 24.2	< 41	< 50	< 37.5	< 50	**1350**	< 50	< 14.3	< 23.3	< 50	< 50	< 250	< 50	< 219	*84 J*	**8,100**	**75.9 J**
	12/9/2014	< 24.2	< 41	< 50	< 37.5	< 50	**1170**	< 50	< 14.3	< 23.3	< 50	< 50	< 250	< 50	< 219	*74.8 J*	**8,300**	**58.4 J**
	3/25/2015	< 9.7	< 16.4	< 20	< 15	< 20	**691**	< 20	< 5.7	< 9.3	< 20	< 20	< 100	< 20	< 87.4	*38.7 J*	**2,670**	**27.6 J**
	5/17/2018	< 2.4	< 4.1	< 5.0	< 3.7	< 5.0	**561**	< 5.0	< 1.4	< 2.3	< 5.0	< 5.0	< 25.0	< 5.0	< 21.9	*42.3*	**304**	**7.5 J**
	10/18/2018	< 0.27	< 0.24	< 0.25	< 1.3	< 2.2	**133**	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	4	**17.9**	**25.1**
	4/17/2019	< 0.27	*0.88 J*	< 0.25	< 1.3	< 2.2	**372**	< 0.22	< 0.39	< 0.58	< 0.71	< 0.81	< 1.2	< 0.80	< 0.85	*36.7*	**204**	**4.1**
	PAL	85	0.7	0.5	80	3	7	140	--	0.5	--	--	10	--	--	20	0.5	0.02
	ES	850	7	5	400	30	70	700	--	5	--	--	100	--	--	100	5	0.2

Notes:
ug/L = micrograms per liter
J = Estimated value - see data validation memo
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**.
-- = PAL or ES not established
NPD = Not previously detected



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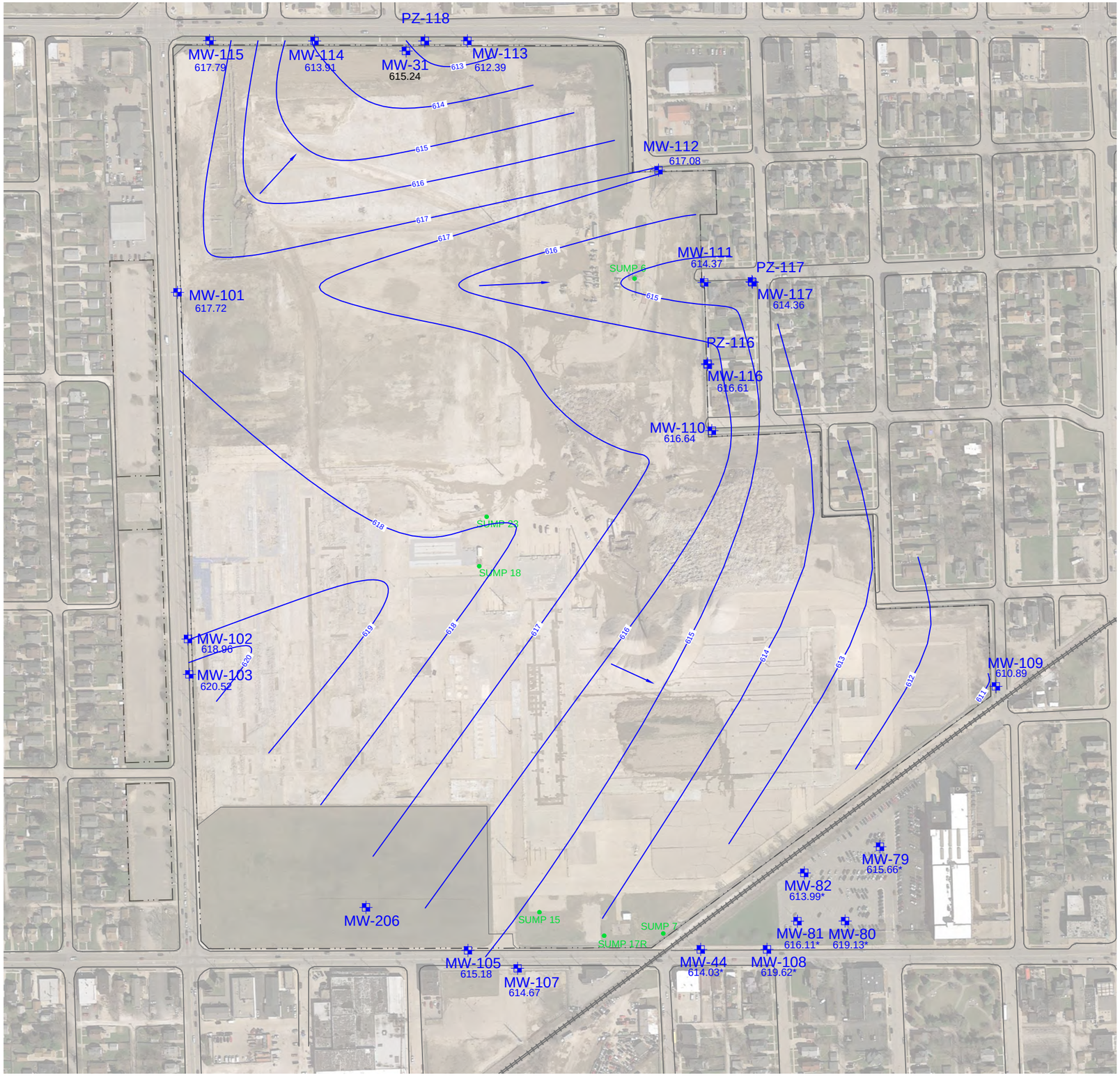
www.aecom.com

SUMP AND PERIMETER MONITORING WELL LOCATIONS
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	11/1/2018
Checked:	SAE	11/1/12018
Approved:	LLA	11/1/2018
PROJECT NUMBER	60605022	
FIGURE NUMBER	1	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER MONITORING WELL LOCATIONS
- 617 WATER TABLE CONTOURS
- * WELLS LOCATED SOUTHEAST OF THE RAILROAD TRACKS (SOUTHEAST OF KEP) ARE UNDER THE INFLUANCE OF THE SOUTHERN GROUNDWATER RECOVERY SYSTEM AND ARE NOT INCLUDED IN THE CONTOURS BECAUSE WATER LEVELS ADJACENT TO THE RECOVERY SYSTEM WERE NOT MEASURED.

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. MW-31 NOT USED FOR CONTOUR MAP

N

0' 300' 600'

SCALE

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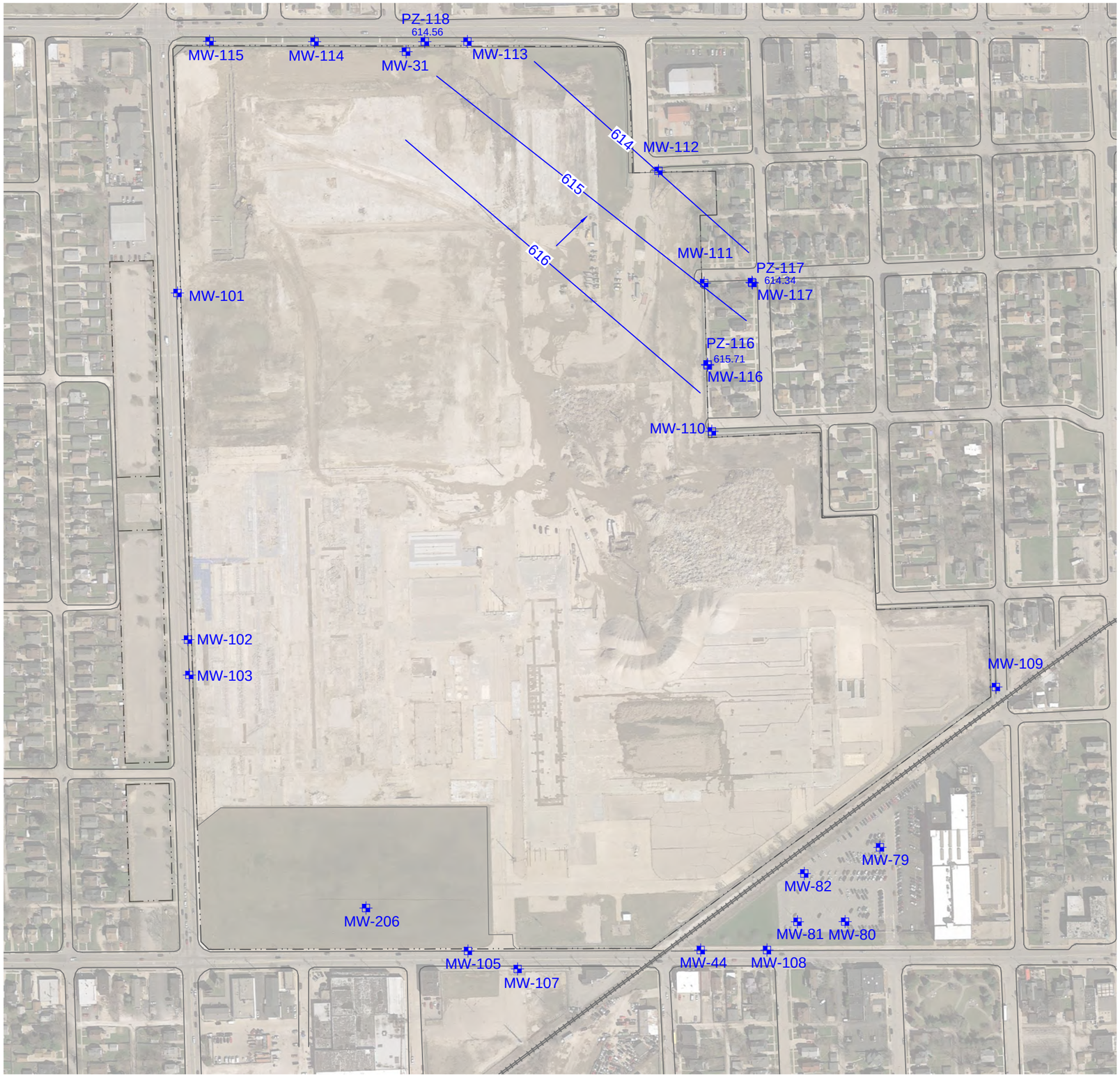
Milwaukee, WI 53212
414.944.6080
www.aecom.com

POTENTIOMETRIC SURFACE PERIMETER WATER TABLE MONITORING WELLS - APRIL 2019

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	4/23/2019
Checked:	LLA	5/8/2019
Approved:	LLA	5/8/2019
PROJECT NUMBER	60597994	
FIGURE NUMBER	2	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER PIEZOMETER LOCATIONS
- 617 WATER TABLE CONTOURS

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.

0' 300' 600'

SCALE

AECOM
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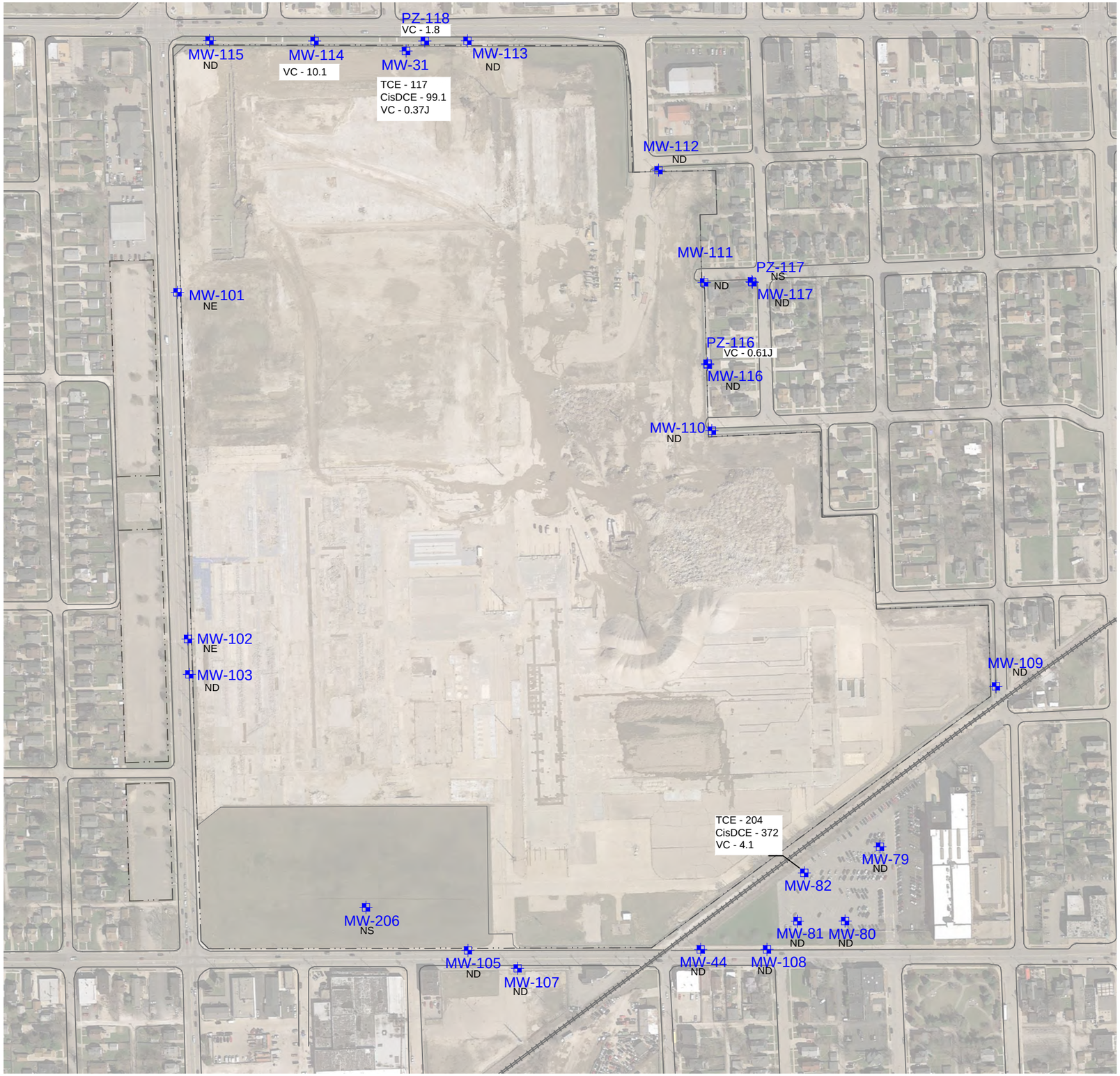
Milwaukee, WI 53212
414.944.6080
www.aecom.com

POTENTIOMETRIC SURFACE PERIMETER PIEZOMETERS - APRIL 2019

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	4/23/2019
Checked:	LLA	5/8/2019
Approved:	LLA	5/8/2019
PROJECT NUMBER	60597994	
FIGURE NUMBER	3	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER MONITORING WELL LOCATIONS - results below well name
- **NS** NOT SAMPLED
- **ND** NO DETECT
- **NE** NO ES EXCEEDANCE
- **TCE** TRICHLORETHENE
- **CisDCE** CIS-1,2-DICHLOROETHENE
- **VC** VINYL CHLORIDE
- **J** ESTIMATED CONCENTRATION BELOW REPORTING LIMIT

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. RESULTS REPORTED IN MICROGRAMS/LITER (UG/L)

0' 300' 600'

SCALE

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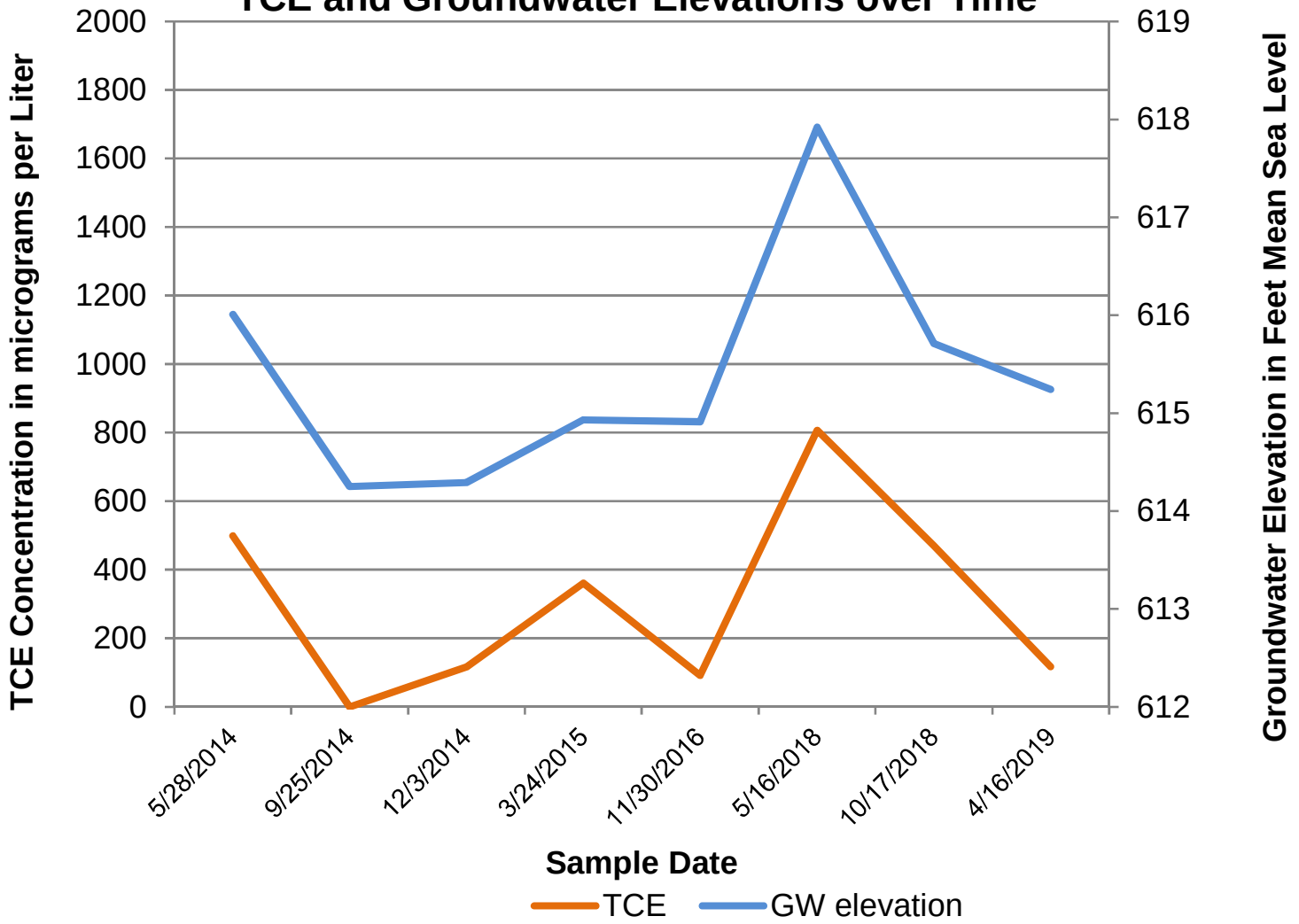
VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER ABOVE ENFORCEMENT STANDARDS - OCTOBER 2018

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

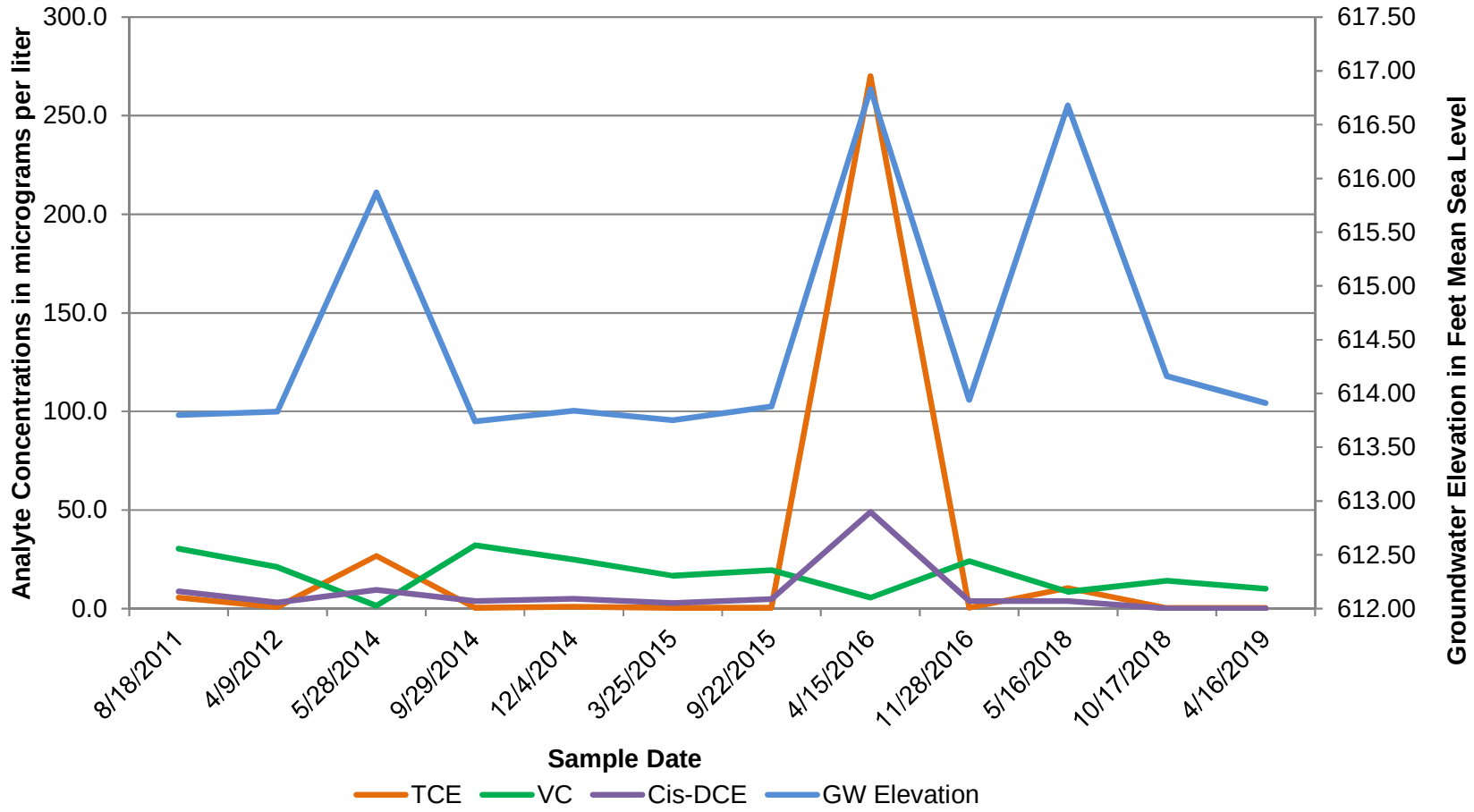
Drawn :	JSM	5/8/2019
Checked:	LLA	5/8/2019
Approved:	LLA	5/8/2019
PROJECT NUMBER	60597994	
FIGURE NUMBER	4	

Figure 5
MW-31
TCE and Groundwater Elevations over Time



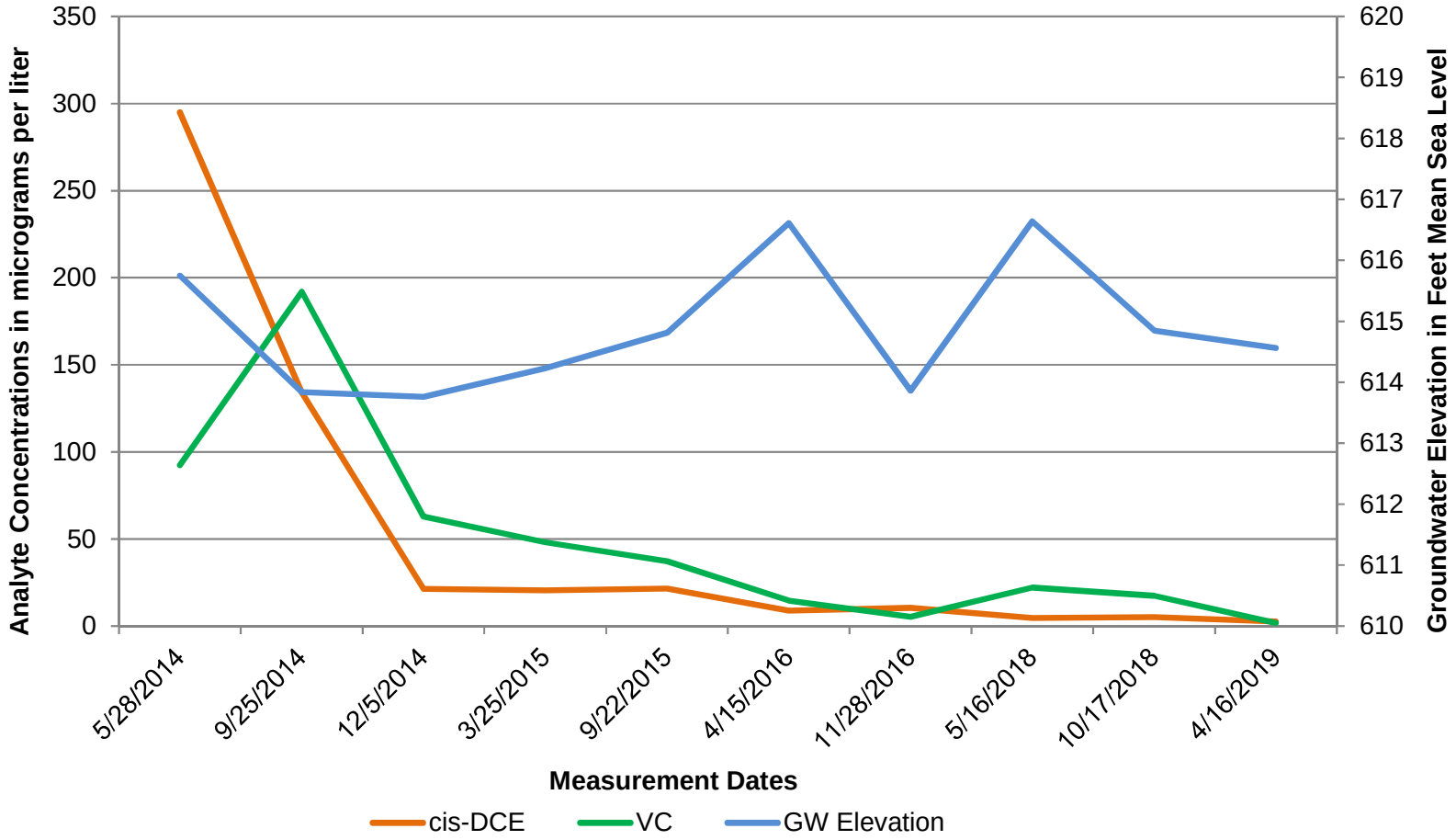
Revised 5/10/2019

Figure 6
MW-114
Analtye Concentrations and Groundwater Elevations over Time



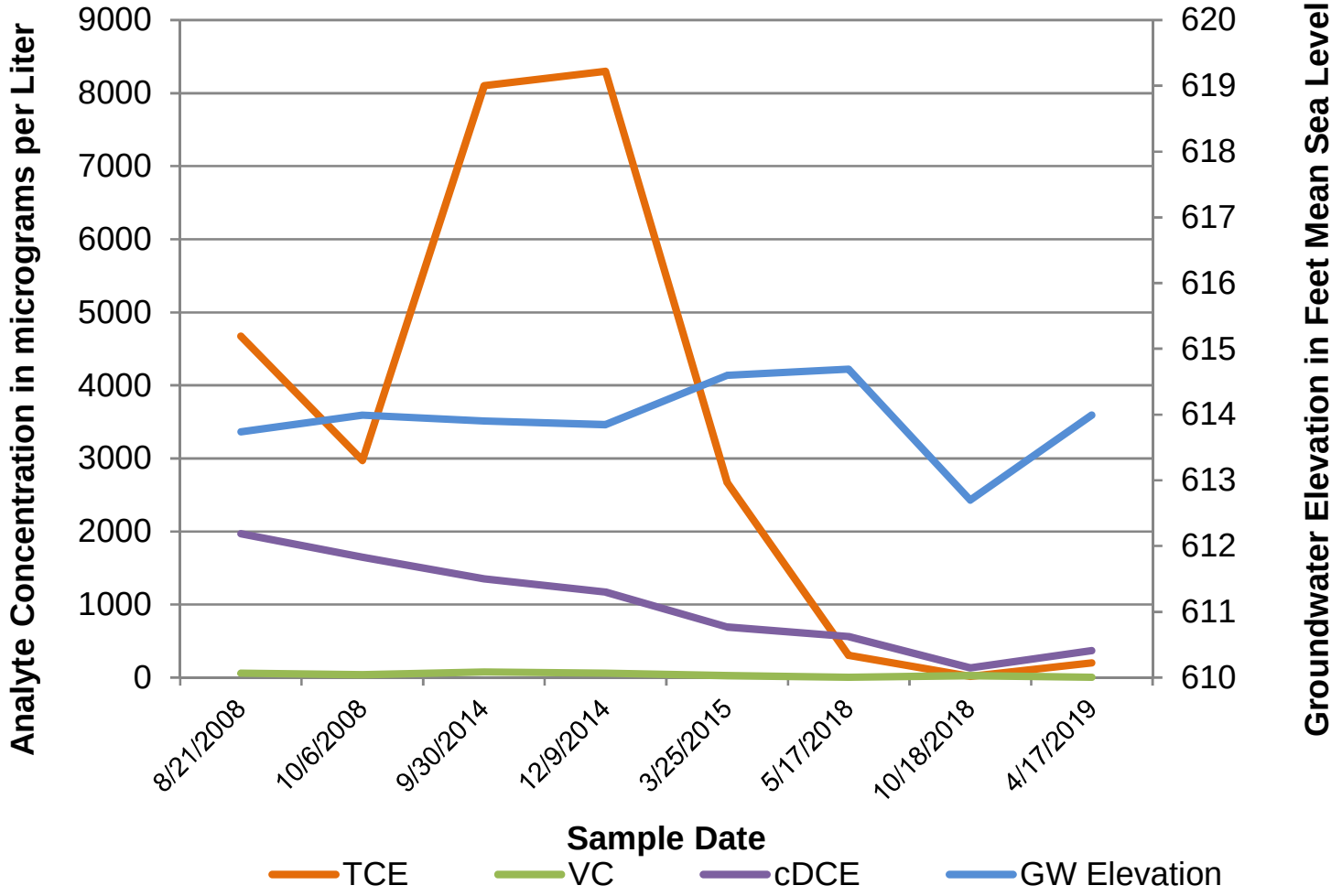
Revised 5/10/2019

Figure 7
PZ-118
Analtye Concentrations and Groundwater Elevations over Time



Revised 5/10/2019

Figure 8
MW-82
Analyte Concentrations and Groundwater Elevations over Time



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

April 26, 2019

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

RE: Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

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

Enclosures

cc: Joel Mackinney, AECOM

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

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

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40186128001	**TB 041619**	Water	04/16/19 09:00	04/19/19 08:25
40186128002	**MW-112**	Water	04/16/19 09:50	04/19/19 08:25
40186128003	**MW-101**	Water	04/16/19 11:10	04/19/19 08:25
40186128004	**MW-103**	Water	04/16/19 10:45	04/19/19 08:25
40186128005	**MW-102**	Water	04/16/19 11:35	04/19/19 08:25
40186128006	**MW-44**	Water	04/16/19 12:20	04/19/19 08:25
40186128007	**MW-107**	Water	04/16/19 12:45	04/19/19 08:25
40186128008	**MW-108**	Water	04/16/19 13:10	04/19/19 08:25
40186128009	**MW-108 DUP**	Water	04/16/19 13:10	04/19/19 08:25
40186128010	**MW-105**	Water	04/16/19 13:45	04/19/19 08:25
40186128011	**MW-113**	Water	04/16/19 14:40	04/19/19 08:25
40186128012	**MW-109**	Water	04/16/19 14:55	04/19/19 08:25
40186128013	**MW-31**	Water	04/16/19 15:30	04/19/19 08:25
40186128014	**MW-110**	Water	04/16/19 16:15	04/19/19 08:25
40186128015	**MW-114**	Water	04/16/19 16:30	04/19/19 08:25
40186128016	**MW-114 DUP**	Water	04/16/19 16:30	04/19/19 08:25
40186128017	**MW-111**	Water	04/16/19 17:05	04/19/19 08:25
40186128018	**MW-115**	Water	04/16/19 17:30	04/19/19 08:25
40186128019	**PZ-118**	Water	04/17/19 10:10	04/19/19 08:25
40186128020	**MW-116**	Water	04/17/19 10:15	04/19/19 08:25
40186128021	**MW-117**	Water	04/17/19 11:10	04/19/19 08:25
40186128022	**PZ-116**	Water	04/17/19 11:15	04/19/19 08:25
40186128023	**MW-79**	Water	04/17/19 12:25	04/19/19 08:25
40186128024	**MW-80**	Water	04/17/19 12:30	04/19/19 08:25
40186128025	**MW-81**	Water	04/17/19 13:20	04/19/19 08:25
40186128026	**MW-82**	Water	04/17/19 13:45	04/19/19 08:25

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SAMPLE ANALYTE COUNT

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40186128001	**TB 041619**	EPA 8260	LAP	63	PASI-G
40186128002	**MW-112**	EPA 8260	LAP	63	PASI-G
40186128003	**MW-101**	EPA 8260	LAP	63	PASI-G
40186128004	**MW-103**	EPA 8260	LAP	63	PASI-G
40186128005	**MW-102**	EPA 8260	LAP	63	PASI-G
40186128006	**MW-44**	EPA 8260	LAP	63	PASI-G
40186128007	**MW-107**	EPA 8260	LAP	63	PASI-G
40186128008	**MW-108**	EPA 8260	LAP	63	PASI-G
40186128009	**MW-108 DUP**	EPA 8260	LAP	63	PASI-G
40186128010	**MW-105**	EPA 8260	LAP	63	PASI-G
40186128011	**MW-113**	EPA 8260	LAP	63	PASI-G
40186128012	**MW-109**	EPA 8260	LAP	63	PASI-G
40186128013	**MW-31**	EPA 8260	LAP	63	PASI-G
40186128014	**MW-110**	EPA 8260	LAP	63	PASI-G
40186128015	**MW-114**	EPA 8260	LAP	63	PASI-G
40186128016	**MW-114 DUP**	EPA 8260	LAP	63	PASI-G
40186128017	**MW-111**	EPA 8260	LAP	63	PASI-G
40186128018	**MW-115**	EPA 8260	LAP	63	PASI-G
40186128019	**PZ-118**	EPA 8260	LAP	63	PASI-G
40186128020	**MW-116**	EPA 8260	LAP	63	PASI-G
40186128021	**MW-117**	EPA 8260	HNW	63	PASI-G
40186128022	**PZ-116**	EPA 8260	HNW	63	PASI-G
40186128023	**MW-79**	EPA 8260	HNW	63	PASI-G
40186128024	**MW-80**	EPA 8260	HNW	63	PASI-G
40186128025	**MW-81**	EPA 8260	HNW	63	PASI-G
40186128026	**MW-82**	EPA 8260	HNW	63	PASI-G

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SUMMARY OF DETECTION

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40186128003	**MW-101**					
EPA 8260	1,1-Dichloroethane	0.27J	ug/L	1.0	04/22/19 21:25	
EPA 8260	1,1,1-Trichloroethane	0.67J	ug/L	1.0	04/22/19 21:25	
40186128005	**MW-102**					
EPA 8260	Trichloroethene	0.62J	ug/L	1.0	04/22/19 22:10	
40186128013	**MW-31**					
EPA 8260	1,1-Dichloroethane	0.31J	ug/L	1.0	04/23/19 06:03	
EPA 8260	1,1-Dichloroethene	5.4	ug/L	1.0	04/23/19 06:03	
EPA 8260	cis-1,2-Dichloroethene	99.1	ug/L	1.0	04/23/19 06:03	
EPA 8260	trans-1,2-Dichloroethene	70.6	ug/L	3.6	04/23/19 06:03	
EPA 8260	Trichloroethene	117	ug/L	1.0	04/23/19 06:03	
EPA 8260	Vinyl chloride	0.37J	ug/L	1.0	04/23/19 06:03	
40186128015	**MW-114**					
EPA 8260	cis-1,2-Dichloroethene	2.1	ug/L	1.0	04/23/19 03:03	
EPA 8260	Vinyl chloride	10.1	ug/L	1.0	04/23/19 03:03	
40186128016	**MW-114 DUP**					
EPA 8260	cis-1,2-Dichloroethene	1.7	ug/L	1.0	04/23/19 03:25	
EPA 8260	Vinyl chloride	10.7	ug/L	1.0	04/23/19 03:25	
40186128019	**PZ-118**					
EPA 8260	cis-1,2-Dichloroethene	2.6	ug/L	1.0	04/23/19 02:17	
EPA 8260	Vinyl chloride	1.8	ug/L	1.0	04/23/19 02:17	
40186128022	**PZ-116**					
EPA 8260	Vinyl chloride	0.61J	ug/L	1.0	04/23/19 13:04	
40186128026	**MW-82**					
EPA 8260	1,1-Dichloroethene	0.88J	ug/L	1.0	04/23/19 12:00	
EPA 8260	cis-1,2-Dichloroethene	372	ug/L	10.0	04/24/19 03:59	
EPA 8260	trans-1,2-Dichloroethene	36.7	ug/L	3.6	04/23/19 12:00	
EPA 8260	Trichloroethene	204	ug/L	1.0	04/23/19 12:00	
EPA 8260	Vinyl chloride	4.1	ug/L	1.0	04/23/19 12:00	

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: TB 041619 **Lab ID: 40186128001** Collected: 04/16/19 09:00 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 20:40	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 20:40	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 20:40	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 20:40	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 20:40	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 20:40	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 20:40	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 20:40	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 20:40	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 20:40	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 20:40	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 20:40	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 20:40	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 20:40	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 20:40	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 20:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 20:40	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 20:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 20:40	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 20:40	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 20:40	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 20:40	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 20:40	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 20:40	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 20:40	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 20:40	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 20:40	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 20:40	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 20:40	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 20:40	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 20:40	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 20:40	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 20:40	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 20:40	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 20:40	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 20:40	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 20:40	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 20:40	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 20:40	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 20:40	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 20:40	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 20:40	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 20:40	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 20:40	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 20:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 20:40	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: TB 041619 **Lab ID: 40186128001** Collected: 04/16/19 09:00 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 20:40	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 20:40	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 20:40	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 20:40	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 20:40	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 20:40	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 20:40	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 20:40	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 20:40	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 20:40	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 20:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 20:40	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 20:40	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 20:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/22/19 20:40	460-00-4	
Dibromofluoromethane (S)	122	%	70-130		1		04/22/19 20:40	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/22/19 20:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-112 **Lab ID: 40186128002** Collected: 04/16/19 09:50 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 21:03	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:03	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 21:03	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 21:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 21:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 21:03	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:03	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 21:03	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 21:03	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 21:03	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 21:03	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 21:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 21:03	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 21:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:03	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:03	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:03	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 21:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:03	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 21:03	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:03	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:03	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:03	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:03	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 21:03	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:03	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:03	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 21:03	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 21:03	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 21:03	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 21:03	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 21:03	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 21:03	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 21:03	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 21:03	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 21:03	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 21:03	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 21:03	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 21:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:03	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-112 **Lab ID: 40186128002** Collected: 04/16/19 09:50 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:03	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 21:03	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 21:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 21:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 21:03	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 21:03	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 21:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 21:03	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 21:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 21:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 21:03	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:03	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 21:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/22/19 21:03	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		04/22/19 21:03	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/22/19 21:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-101 **Lab ID: 40186128003** Collected: 04/16/19 11:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 21:25	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:25	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 21:25	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 21:25	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 21:25	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 21:25	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:25	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 21:25	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 21:25	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:25	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:25	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:25	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:25	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 21:25	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 21:25	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 21:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 21:25	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 21:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:25	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:25	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:25	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 21:25	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:25	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 21:25	75-71-8	
1,1-Dichloroethane	**0.27J**	ug/L	1.0	0.27	1		04/22/19 21:25	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:25	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:25	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:25	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 21:25	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:25	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:25	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 21:25	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 21:25	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 21:25	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 21:25	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 21:25	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 21:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 21:25	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 21:25	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 21:25	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 21:25	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:25	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 21:25	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 21:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:25	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-101 **Lab ID: 40186128003** Collected: 04/16/19 11:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 21:25	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 21:25	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 21:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 21:25	120-82-1	
1,1,1-Trichloroethane	**0.67J**	ug/L	1.0	0.24	1		04/22/19 21:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 21:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 21:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 21:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 21:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 21:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 21:25	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:25	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 21:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/22/19 21:25	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		04/22/19 21:25	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/22/19 21:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-103 **Lab ID: 40186128004** Collected: 04/16/19 10:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 21:48	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:48	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 21:48	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 21:48	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 21:48	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 21:48	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:48	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 21:48	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 21:48	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:48	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:48	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:48	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 21:48	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 21:48	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 21:48	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 21:48	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 21:48	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 21:48	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:48	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:48	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 21:48	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 21:48	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 21:48	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 21:48	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:48	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:48	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:48	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:48	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 21:48	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:48	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 21:48	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 21:48	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 21:48	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 21:48	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 21:48	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 21:48	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 21:48	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:48	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 21:48	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 21:48	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 21:48	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 21:48	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 21:48	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 21:48	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 21:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 21:48	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-103 **Lab ID: 40186128004** Collected: 04/16/19 10:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 21:48	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 21:48	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 21:48	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 21:48	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 21:48	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 21:48	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 21:48	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 21:48	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 21:48	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 21:48	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 21:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 21:48	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 21:48	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 21:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/22/19 21:48	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		04/22/19 21:48	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/22/19 21:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-102 **Lab ID: 40186128005** Collected: 04/16/19 11:35 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 22:10	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:10	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 22:10	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 22:10	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 22:10	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 22:10	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:10	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 22:10	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 22:10	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:10	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:10	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:10	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:10	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 22:10	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 22:10	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 22:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 22:10	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 22:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:10	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:10	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:10	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 22:10	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:10	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 22:10	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:10	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:10	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:10	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:10	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 22:10	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:10	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:10	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 22:10	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 22:10	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 22:10	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 22:10	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 22:10	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 22:10	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:10	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 22:10	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 22:10	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 22:10	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 22:10	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:10	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 22:10	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 22:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:10	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-102 **Lab ID: 40186128005** Collected: 04/16/19 11:35 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:10	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 22:10	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 22:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 22:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 22:10	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:10	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 22:10	79-00-5	
Trichloroethene	**0.62J**	ug/L	1.0	0.26	1		04/22/19 22:10	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 22:10	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 22:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 22:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 22:10	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:10	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 22:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/22/19 22:10	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		04/22/19 22:10	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		04/22/19 22:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-44 **Lab ID: 40186128006** Collected: 04/16/19 12:20 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 22:32	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:32	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 22:32	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 22:32	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 22:32	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 22:32	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:32	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 22:32	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 22:32	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:32	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:32	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:32	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:32	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 22:32	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 22:32	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 22:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 22:32	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 22:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:32	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:32	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:32	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 22:32	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:32	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 22:32	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:32	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:32	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:32	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:32	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 22:32	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:32	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:32	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 22:32	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 22:32	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 22:32	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 22:32	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 22:32	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 22:32	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:32	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 22:32	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 22:32	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 22:32	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 22:32	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:32	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 22:32	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 22:32	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:32	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-44 **Lab ID: 40186128006** Collected: 04/16/19 12:20 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:32	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 22:32	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 22:32	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 22:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 22:32	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:32	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 22:32	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 22:32	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 22:32	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 22:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 22:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 22:32	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:32	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 22:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/22/19 22:32	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		04/22/19 22:32	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		04/22/19 22:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-107 **Lab ID: 40186128007** Collected: 04/16/19 12:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 22:55	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:55	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 22:55	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 22:55	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 22:55	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 22:55	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:55	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 22:55	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 22:55	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:55	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:55	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:55	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 22:55	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 22:55	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 22:55	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 22:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 22:55	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 22:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:55	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:55	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 22:55	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 22:55	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 22:55	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 22:55	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:55	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:55	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:55	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:55	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 22:55	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:55	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 22:55	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 22:55	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 22:55	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 22:55	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 22:55	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 22:55	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 22:55	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:55	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 22:55	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 22:55	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 22:55	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 22:55	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 22:55	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 22:55	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 22:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 22:55	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-107 **Lab ID: 40186128007** Collected: 04/16/19 12:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 22:55	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 22:55	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 22:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 22:55	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 22:55	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 22:55	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 22:55	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 22:55	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 22:55	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 22:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 22:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 22:55	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 22:55	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 22:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/22/19 22:55	460-00-4	
Dibromofluoromethane (S)	125	%	70-130		1		04/22/19 22:55	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		04/22/19 22:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-108 **Lab ID: 40186128008** Collected: 04/16/19 13:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 23:17	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:17	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 23:17	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 23:17	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 23:17	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 23:17	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:17	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 23:17	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 23:17	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 23:17	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:17	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 23:17	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 23:17	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 23:17	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 23:17	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 23:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 23:17	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 23:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 23:17	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 23:17	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:17	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 23:17	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 23:17	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 23:17	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:17	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:17	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:17	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:17	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 23:17	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:17	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 23:17	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 23:17	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 23:17	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 23:17	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 23:17	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 23:17	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 23:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 23:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 23:17	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 23:17	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 23:17	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 23:17	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 23:17	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 23:17	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 23:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-108 **Lab ID: 40186128008** Collected: 04/16/19 13:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:17	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 23:17	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 23:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 23:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 23:17	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:17	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 23:17	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 23:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 23:17	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 23:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 23:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 23:17	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 23:17	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 23:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/22/19 23:17	460-00-4	
Dibromofluoromethane (S)	124	%	70-130		1		04/22/19 23:17	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/22/19 23:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-108 DUP **Lab ID: 40186128009** Collected: 04/16/19 13:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/22/19 23:40	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:40	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/22/19 23:40	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/22/19 23:40	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/22/19 23:40	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/22/19 23:40	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:40	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/22/19 23:40	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/22/19 23:40	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 23:40	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:40	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/22/19 23:40	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/22/19 23:40	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/22/19 23:40	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/22/19 23:40	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/22/19 23:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/22/19 23:40	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/22/19 23:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/22/19 23:40	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/22/19 23:40	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/22/19 23:40	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/22/19 23:40	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/22/19 23:40	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/22/19 23:40	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:40	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:40	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:40	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:40	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/22/19 23:40	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:40	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/22/19 23:40	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/22/19 23:40	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/22/19 23:40	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/22/19 23:40	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/22/19 23:40	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/22/19 23:40	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/22/19 23:40	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 23:40	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/22/19 23:40	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/22/19 23:40	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/22/19 23:40	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/22/19 23:40	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/22/19 23:40	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/22/19 23:40	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/22/19 23:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/22/19 23:40	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-108 DUP **Lab ID: 40186128009** Collected: 04/16/19 13:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/22/19 23:40	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/22/19 23:40	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/22/19 23:40	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/22/19 23:40	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/22/19 23:40	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/22/19 23:40	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/22/19 23:40	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/22/19 23:40	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/22/19 23:40	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/22/19 23:40	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/22/19 23:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/22/19 23:40	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/22/19 23:40	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/22/19 23:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/22/19 23:40	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		04/22/19 23:40	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/22/19 23:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-105 **Lab ID: 40186128010** Collected: 04/16/19 13:45 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-105 **Lab ID: 40186128010** Collected: 04/16/19 13:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 00:02	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 00:02	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 00:02	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 00:02	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 00:02	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 00:02	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 00:02	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 00:02	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 00:02	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 00:02	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 00:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 00:02	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 00:02	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 00:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/23/19 00:02	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		04/23/19 00:02	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/23/19 00:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-113 **Lab ID: 40186128011** Collected: 04/16/19 14:40 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-113 **Lab ID: 40186128011** Collected: 04/16/19 14:40 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 00:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 00:25	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 00:25	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 00:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 00:25	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 00:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 00:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 00:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 00:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 00:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 00:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 00:25	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 00:25	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 00:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/23/19 00:25	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		04/23/19 00:25	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/23/19 00:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-109 **Lab ID: 40186128012** Collected: 04/16/19 14:55 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 00:47	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 00:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 00:47	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 00:47	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 00:47	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 00:47	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 00:47	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 00:47	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 00:47	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 00:47	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 00:47	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 00:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 00:47	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 00:47	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 00:47	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 00:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 00:47	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 00:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 00:47	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 00:47	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 00:47	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 00:47	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 00:47	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 00:47	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 00:47	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 00:47	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 00:47	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/23/19 00:47	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 00:47	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 00:47	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 00:47	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 00:47	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 00:47	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 00:47	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 00:47	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 00:47	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 00:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 00:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 00:47	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 00:47	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 00:47	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 00:47	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 00:47	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 00:47	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 00:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 00:47	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-109 **Lab ID: 40186128012** Collected: 04/16/19 14:55 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 00:47	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 00:47	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 00:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 00:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 00:47	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 00:47	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 00:47	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 00:47	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 00:47	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 00:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 00:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 00:47	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 00:47	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 00:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/23/19 00:47	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		04/23/19 00:47	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		04/23/19 00:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-31 **Lab ID: 40186128013** Collected: 04/16/19 15:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 06:03	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 06:03	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 06:03	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 06:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 06:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 06:03	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 06:03	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 06:03	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 06:03	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 06:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 06:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 06:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 06:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 06:03	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 06:03	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 06:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 06:03	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 06:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 06:03	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 06:03	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 06:03	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 06:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 06:03	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 06:03	75-71-8	
1,1-Dichloroethane	**0.31J**	ug/L	1.0	0.27	1		04/23/19 06:03	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 06:03	107-06-2	
1,1-Dichloroethene	**5.4**	ug/L	1.0	0.24	1		04/23/19 06:03	75-35-4	
cis-1,2-Dichloroethene	**99.1**	ug/L	1.0	0.27	1		04/23/19 06:03	156-59-2	
trans-1,2-Dichloroethene	**70.6**	ug/L	3.6	1.1	1		04/23/19 06:03	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 06:03	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 06:03	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 06:03	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 06:03	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 06:03	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 06:03	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 06:03	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 06:03	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 06:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 06:03	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 06:03	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 06:03	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 06:03	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 06:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 06:03	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 06:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 06:03	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-31 **Lab ID: 40186128013** Collected: 04/16/19 15:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 06:03	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 06:03	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 06:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 06:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 06:03	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 06:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 06:03	79-00-5	
Trichloroethene	**117**	ug/L	1.0	0.26	1		04/23/19 06:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 06:03	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 06:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 06:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 06:03	108-67-8	
Vinyl chloride	**0.37J**	ug/L	1.0	0.17	1		04/23/19 06:03	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 06:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/23/19 06:03	460-00-4	
Dibromofluoromethane (S)	121	%	70-130		1		04/23/19 06:03	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/23/19 06:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-110 **Lab ID: 40186128014** Collected: 04/16/19 16:15 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-110 **Lab ID: 40186128014** Collected: 04/16/19 16:15 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 01:10	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 01:10	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 01:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 01:10	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 01:10	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 01:10	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 01:10	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 01:10	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 01:10	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 01:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 01:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 01:10	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 01:10	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 01:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/23/19 01:10	460-00-4	
Dibromofluoromethane (S)	127	%	70-130		1		04/23/19 01:10	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/23/19 01:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-114 **Lab ID: 40186128015** Collected: 04/16/19 16:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 03:03	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:03	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 03:03	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 03:03	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 03:03	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 03:03	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:03	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 03:03	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 03:03	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 03:03	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:03	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 03:03	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 03:03	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 03:03	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 03:03	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 03:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 03:03	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 03:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 03:03	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 03:03	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:03	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 03:03	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 03:03	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 03:03	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 03:03	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:03	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:03	75-35-4	
cis-1,2-Dichloroethene	**2.1**	ug/L	1.0	0.27	1		04/23/19 03:03	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 03:03	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:03	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 03:03	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 03:03	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 03:03	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 03:03	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 03:03	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 03:03	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 03:03	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 03:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 03:03	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 03:03	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 03:03	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 03:03	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 03:03	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 03:03	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 03:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 03:03	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-114 **Lab ID: 40186128015** Collected: 04/16/19 16:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:03	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 03:03	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 03:03	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 03:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 03:03	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:03	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 03:03	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 03:03	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 03:03	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 03:03	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 03:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 03:03	108-67-8	
Vinyl chloride	**10.1**	ug/L	1.0	0.17	1		04/23/19 03:03	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 03:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/23/19 03:03	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		04/23/19 03:03	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/23/19 03:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-114 DUP **Lab ID: 40186128016** Collected: 04/16/19 16:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 03:25	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:25	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 03:25	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 03:25	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 03:25	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 03:25	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:25	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 03:25	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 03:25	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 03:25	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:25	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 03:25	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 03:25	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 03:25	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 03:25	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 03:25	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 03:25	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 03:25	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 03:25	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 03:25	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 03:25	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 03:25	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 03:25	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 03:25	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 03:25	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:25	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:25	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	0.27	1		04/23/19 03:25	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 03:25	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:25	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 03:25	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 03:25	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 03:25	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 03:25	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 03:25	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 03:25	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 03:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 03:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 03:25	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 03:25	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 03:25	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 03:25	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 03:25	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 03:25	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 03:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 03:25	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-114 DUP **Lab ID: 40186128016** Collected: 04/16/19 16:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 03:25	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 03:25	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 03:25	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 03:25	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 03:25	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 03:25	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 03:25	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 03:25	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 03:25	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 03:25	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 03:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 03:25	108-67-8	
Vinyl chloride	**10.7**	ug/L	1.0	0.17	1		04/23/19 03:25	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 03:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/23/19 03:25	460-00-4	
Dibromofluoromethane (S)	126	%	70-130		1		04/23/19 03:25	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/23/19 03:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-111 **Lab ID: 40186128017** Collected: 04/16/19 17:05 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-111 **Lab ID: 40186128017** Collected: 04/16/19 17:05 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 01:32	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 01:32	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 01:32	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 01:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 01:32	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 01:32	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 01:32	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 01:32	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 01:32	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 01:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 01:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 01:32	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 01:32	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 01:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/23/19 01:32	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		04/23/19 01:32	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/23/19 01:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-115 **Lab ID: 40186128018** Collected: 04/16/19 17:30 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-115 **Lab ID: 40186128018** Collected: 04/16/19 17:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 01:55	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 01:55	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 01:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 01:55	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 01:55	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 01:55	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 01:55	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 01:55	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 01:55	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 01:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 01:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 01:55	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 01:55	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 01:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		04/23/19 01:55	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		04/23/19 01:55	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/23/19 01:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: PZ-118 **Lab ID: 40186128019** Collected: 04/17/19 10:10 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: PZ-118 **Lab ID: 40186128019** Collected: 04/17/19 10:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 02:17	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 02:17	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 02:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 02:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 02:17	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 02:17	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 02:17	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 02:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 02:17	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 02:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 02:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 02:17	108-67-8	
Vinyl chloride	**1.8**	ug/L	1.0	0.17	1		04/23/19 02:17	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 02:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		04/23/19 02:17	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		04/23/19 02:17	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/23/19 02:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-116 **Lab ID: 40186128020** Collected: 04/17/19 10:15 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 02:40	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 02:40	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 02:40	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 02:40	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 02:40	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 02:40	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 02:40	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 02:40	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 02:40	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 02:40	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 02:40	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 02:40	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 02:40	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 02:40	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 02:40	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 02:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 02:40	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 02:40	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 02:40	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 02:40	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 02:40	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 02:40	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 02:40	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 02:40	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 02:40	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 02:40	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 02:40	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/23/19 02:40	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 02:40	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 02:40	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 02:40	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 02:40	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 02:40	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 02:40	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 02:40	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 02:40	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 02:40	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 02:40	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 02:40	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 02:40	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 02:40	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 02:40	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 02:40	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 02:40	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 02:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 02:40	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-116 **Lab ID: 40186128020** Collected: 04/17/19 10:15 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 02:40	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 02:40	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 02:40	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 02:40	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 02:40	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 02:40	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 02:40	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 02:40	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 02:40	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 02:40	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 02:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 02:40	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 02:40	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 02:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/23/19 02:40	460-00-4	
Dibromofluoromethane (S)	123	%	70-130		1		04/23/19 02:40	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/23/19 02:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-117 **Lab ID: 40186128021** Collected: 04/17/19 11:10 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-117 **Lab ID: 40186128021** Collected: 04/17/19 11:10 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 11:38	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 11:38	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 11:38	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 11:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 11:38	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 11:38	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 11:38	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 11:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 11:38	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 11:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 11:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 11:38	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 11:38	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 11:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/23/19 11:38	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/23/19 11:38	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/23/19 11:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: PZ-116 **Lab ID: 40186128022** Collected: 04/17/19 11:15 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: PZ-116 **Lab ID: 40186128022** Collected: 04/17/19 11:15 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:04	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 13:04	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 13:04	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 13:04	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 13:04	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:04	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 13:04	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 13:04	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 13:04	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 13:04	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 13:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 13:04	108-67-8	
Vinyl chloride	**0.61J**	ug/L	1.0	0.17	1		04/23/19 13:04	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 13:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/23/19 13:04	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		04/23/19 13:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/23/19 13:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-79 **Lab ID: 40186128023** Collected: 04/17/19 12:25 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 13:26	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:26	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 13:26	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 13:26	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 13:26	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 13:26	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:26	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 13:26	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 13:26	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 13:26	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:26	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 13:26	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 13:26	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 13:26	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 13:26	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 13:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 13:26	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 13:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 13:26	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 13:26	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:26	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 13:26	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 13:26	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 13:26	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:26	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:26	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:26	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:26	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 13:26	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:26	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 13:26	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 13:26	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 13:26	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 13:26	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 13:26	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 13:26	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 13:26	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 13:26	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 13:26	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 13:26	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 13:26	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 13:26	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 13:26	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 13:26	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 13:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:26	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-79 **Lab ID: 40186128023** Collected: 04/17/19 12:25 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:26	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 13:26	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 13:26	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 13:26	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 13:26	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:26	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 13:26	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 13:26	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 13:26	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 13:26	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 13:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 13:26	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 13:26	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 13:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/23/19 13:26	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		04/23/19 13:26	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/23/19 13:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-80 **Lab ID: 40186128024** Collected: 04/17/19 12:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 13:47	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 13:47	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 13:47	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 13:47	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 13:47	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:47	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 13:47	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 13:47	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 13:47	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:47	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 13:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 13:47	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 13:47	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 13:47	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 13:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 13:47	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 13:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 13:47	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 13:47	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 13:47	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 13:47	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 13:47	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 13:47	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:47	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:47	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:47	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:47	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/23/19 13:47	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:47	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 13:47	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 13:47	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 13:47	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 13:47	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 13:47	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 13:47	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 13:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 13:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 13:47	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 13:47	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 13:47	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 13:47	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 13:47	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 13:47	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 13:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 13:47	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-80 **Lab ID: 40186128024** Collected: 04/17/19 12:30 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 13:47	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 13:47	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 13:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 13:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 13:47	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 13:47	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 13:47	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 13:47	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 13:47	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 13:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 13:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 13:47	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 13:47	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 13:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		04/23/19 13:47	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/23/19 13:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/23/19 13:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-81 **Lab ID: 40186128025** Collected: 04/17/19 13:20 Received: 04/19/19 08:25 Matrix: Water

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-81 **Lab ID: 40186128025** Collected: 04/17/19 13:20 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 14:09	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 14:09	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 14:09	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 14:09	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 14:09	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 14:09	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 14:09	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/23/19 14:09	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 14:09	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 14:09	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 14:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 14:09	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 14:09	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 14:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/23/19 14:09	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		04/23/19 14:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/23/19 14:09	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-82 **Lab ID: 40186128026** Collected: 04/17/19 13:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/23/19 12:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/23/19 12:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/23/19 12:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/23/19 12:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/23/19 12:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/23/19 12:00	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 12:00	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/23/19 12:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/23/19 12:00	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/23/19 12:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 12:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/23/19 12:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/23/19 12:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/23/19 12:00	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/23/19 12:00	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/23/19 12:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/23/19 12:00	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/23/19 12:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/23/19 12:00	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/23/19 12:00	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/23/19 12:00	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/23/19 12:00	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/23/19 12:00	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/23/19 12:00	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 12:00	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 12:00	107-06-2	
1,1-Dichloroethene	**0.88J**	ug/L	1.0	0.24	1		04/23/19 12:00	75-35-4	
cis-1,2-Dichloroethene	**372**	ug/L	10.0	2.7	10		04/24/19 03:59	156-59-2	
trans-1,2-Dichloroethene	**36.7**	ug/L	3.6	1.1	1		04/23/19 12:00	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 12:00	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/23/19 12:00	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/23/19 12:00	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/23/19 12:00	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/23/19 12:00	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/23/19 12:00	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/23/19 12:00	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/23/19 12:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 12:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/23/19 12:00	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/23/19 12:00	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/23/19 12:00	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/23/19 12:00	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/23/19 12:00	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/23/19 12:00	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/23/19 12:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/23/19 12:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Sample: MW-82 **Lab ID: 40186128026** Collected: 04/17/19 13:45 Received: 04/19/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/23/19 12:00	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/23/19 12:00	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/23/19 12:00	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/23/19 12:00	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/23/19 12:00	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/23/19 12:00	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/23/19 12:00	79-00-5	
Trichloroethene	**204**	ug/L	1.0	0.26	1		04/23/19 12:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/23/19 12:00	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/23/19 12:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/23/19 12:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/23/19 12:00	108-67-8	
Vinyl chloride	**4.1**	ug/L	1.0	0.17	1		04/23/19 12:00	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/23/19 12:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/23/19 12:00	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/23/19 12:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/23/19 12:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

QC Batch: 319006 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186128001, 40186128002, 40186128003, 40186128004, 40186128005, 40186128006, 40186128007, 40186128008, 40186128009, 40186128010, 40186128011, 40186128012, 40186128013, 40186128014, 40186128015, 40186128016, 40186128017, 40186128018, 40186128019, 40186128020

METHOD BLANK: 1854196 Matrix: Water
Associated Lab Samples: 40186128001, 40186128002, 40186128003, 40186128004, 40186128005, 40186128006, 40186128007, 40186128008, 40186128009, 40186128010, 40186128011, 40186128012, 40186128013, 40186128014, 40186128015, 40186128016, 40186128017, 40186128018, 40186128019, 40186128020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/22/19 16:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/22/19 16:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/22/19 16:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/22/19 16:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/22/19 16:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/22/19 16:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/22/19 16:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	04/22/19 16:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/22/19 16:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/22/19 16:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/22/19 16:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/22/19 16:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/22/19 16:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/22/19 16:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/22/19 16:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/22/19 16:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/22/19 16:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/22/19 16:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/22/19 16:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/22/19 16:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/22/19 16:57	
2-Chlorotoluene	ug/L	<0.93	5.0	04/22/19 16:57	
4-Chlorotoluene	ug/L	<0.76	2.5	04/22/19 16:57	
Benzene	ug/L	<0.25	1.0	04/22/19 16:57	
Bromobenzene	ug/L	<0.24	1.0	04/22/19 16:57	
Bromochloromethane	ug/L	<0.36	5.0	04/22/19 16:57	
Bromodichloromethane	ug/L	<0.36	1.2	04/22/19 16:57	
Bromoform	ug/L	<4.0	13.2	04/22/19 16:57	
Bromomethane	ug/L	<0.97	5.0	04/22/19 16:57	
Carbon tetrachloride	ug/L	<0.17	1.0	04/22/19 16:57	
Chlorobenzene	ug/L	<0.71	2.4	04/22/19 16:57	
Chloroethane	ug/L	<1.3	5.0	04/22/19 16:57	
Chloroform	ug/L	<1.3	5.0	04/22/19 16:57	
Chloromethane	ug/L	<2.2	7.3	04/22/19 16:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/22/19 16:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/22/19 16:57	
Dibromochloromethane	ug/L	<2.6	8.7	04/22/19 16:57	
Dibromomethane	ug/L	<0.94	3.1	04/22/19 16:57	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

METHOD BLANK: 1854196 Matrix: Water

Associated Lab Samples: 40186128001, 40186128002, 40186128003, 40186128004, 40186128005, 40186128006, 40186128007, 40186128008, 40186128009, 40186128010, 40186128011, 40186128012, 40186128013, 40186128014, 40186128015, 40186128016, 40186128017, 40186128018, 40186128019, 40186128020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/22/19 16:57	
Diisopropyl ether	ug/L	<1.9	6.3	04/22/19 16:57	
Ethylbenzene	ug/L	<0.22	1.0	04/22/19 16:57	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/22/19 16:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/22/19 16:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/22/19 16:57	
Methylene Chloride	ug/L	<0.58	5.0	04/22/19 16:57	
n-Butylbenzene	ug/L	<0.71	2.4	04/22/19 16:57	
n-Propylbenzene	ug/L	<0.81	5.0	04/22/19 16:57	
Naphthalene	ug/L	<1.2	5.0	04/22/19 16:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/22/19 16:57	
sec-Butylbenzene	ug/L	<0.85	5.0	04/22/19 16:57	
Styrene	ug/L	<0.47	1.6	04/22/19 16:57	
tert-Butylbenzene	ug/L	<0.30	1.0	04/22/19 16:57	
Tetrachloroethene	ug/L	<0.33	1.1	04/22/19 16:57	
Toluene	ug/L	<0.17	5.0	04/22/19 16:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/22/19 16:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/22/19 16:57	
Trichloroethene	ug/L	<0.26	1.0	04/22/19 16:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/22/19 16:57	
Vinyl chloride	ug/L	<0.17	1.0	04/22/19 16:57	
Xylene (Total)	ug/L	<1.5	3.0	04/22/19 16:57	
4-Bromofluorobenzene (S)	%	88	70-130	04/22/19 16:57	
Dibromofluoromethane (S)	%	112	70-130	04/22/19 16:57	
Toluene-d8 (S)	%	94	70-130	04/22/19 16:57	

LABORATORY CONTROL SAMPLE: 1854197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	70-130	
1,1,2-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethane	ug/L	50	52.4	105	73-150	
1,1-Dichloroethene	ug/L	50	51.1	102	73-138	
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.9	78	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	70-130	
1,2-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane	ug/L	50	54.9	110	75-140	
1,2-Dichloropropane	ug/L	50	50.8	102	73-135	
1,3-Dichlorobenzene	ug/L	50	47.7	95	70-130	
1,4-Dichlorobenzene	ug/L	50	49.7	99	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

LABORATORY CONTROL SAMPLE: 1854197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	54.9	110	70-130	
Bromodichloromethane	ug/L	50	51.4	103	70-130	
Bromoform	ug/L	50	50.2	100	68-129	
Bromomethane	ug/L	50	40.9	82	18-159	
Carbon tetrachloride	ug/L	50	54.4	109	70-130	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	52.0	104	53-147	
Chloroform	ug/L	50	52.5	105	74-136	
Chloromethane	ug/L	50	31.8	64	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.2	90	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	25.6	51	10-130	
Ethylbenzene	ug/L	50	49.9	100	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	70-130	
Methyl-tert-butyl ether	ug/L	50	41.0	82	54-137	
Methylene Chloride	ug/L	50	57.9	116	73-138	
Styrene	ug/L	50	50.8	102	70-130	
Tetrachloroethene	ug/L	50	47.8	96	70-130	
Toluene	ug/L	50	51.5	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.3	85	70-130	
Trichloroethene	ug/L	50	51.4	103	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	76-147	
Vinyl chloride	ug/L	50	40.9	82	51-120	
Xylene (Total)	ug/L	150	154	103	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854407 1854408

Parameter	Units	40186128002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.6	52.6	103	105	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.9	48.3	96	97	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.3	50.3	103	101	70-137	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	54.3	55.6	109	111	73-153	2	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.2	55.4	110	111	73-138	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.6	47.0	89	94	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.0	42.1	84	84	58-129	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.0	51.1	100	102	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.9	50.7	98	101	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	55.0	57.5	110	115	75-140	4	20	

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REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854407 1854408

Parameter	Units	40186128002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<0.28	50	50	49.3	50.6	99	101	71-138	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	46.3	49.2	93	98	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.3	51.7	101	103	70-130	3	20	
Benzene	ug/L	<0.25	50	50	54.4	56.9	109	114	70-130	5	20	
Bromodichloromethane	ug/L	<0.36	50	50	49.3	50.8	99	102	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	47.3	48.9	95	98	68-129	3	20	
Bromomethane	ug/L	<0.97	50	50	52.0	56.9	104	114	15-170	9	20	
Carbon tetrachloride	ug/L	<0.17	50	50	53.8	56.0	108	112	70-130	4	20	
Chlorobenzene	ug/L	<0.71	50	50	52.4	51.0	105	102	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	59.5	60.6	119	121	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	52.5	57.1	105	114	74-136	8	20	
Chloromethane	ug/L	<2.2	50	50	38.8	40.7	78	81	23-115	5	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.8	55.2	104	110	70-131	6	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.7	44.9	89	90	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	47.7	48.1	95	96	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	40.7	38.8	81	78	10-132	5	20	
Ethylbenzene	ug/L	<0.22	50	50	47.6	48.9	95	98	80-125	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	47.8	49.1	96	98	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.5	41.9	83	84	51-145	1	20	
Methylene Chloride	ug/L	<0.58	50	50	59.6	57.1	119	114	73-140	4	20	
Styrene	ug/L	<0.47	50	50	50.0	50.6	100	101	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	47.0	45.6	94	91	70-130	3	20	
Toluene	ug/L	<0.17	50	50	50.7	50.2	101	100	80-131	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	54.6	56.1	109	112	73-148	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.3	41.7	85	83	70-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	52.5	52.2	105	104	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	55.5	56.8	111	114	74-147	2	20	
Vinyl chloride	ug/L	<0.17	50	50	47.0	47.6	94	95	41-129	1	20	
Xylene (Total)	ug/L	<1.5	150	150	147	153	98	102	70-130	4	20	
4-Bromofluorobenzene (S)	%						97	97	70-130			
Dibromofluoromethane (S)	%						115	118	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

QC Batch: 319007 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186128021, 40186128022, 40186128023, 40186128024, 40186128025, 40186128026

METHOD BLANK: 1854198 Matrix: Water
Associated Lab Samples: 40186128021, 40186128022, 40186128023, 40186128024, 40186128025, 40186128026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/23/19 07:42	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/23/19 07:42	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/23/19 07:42	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/23/19 07:42	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/23/19 07:42	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/23/19 07:42	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/23/19 07:42	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	04/23/19 07:42	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/23/19 07:42	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/23/19 07:42	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/23/19 07:42	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/23/19 07:42	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/23/19 07:42	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/23/19 07:42	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/23/19 07:42	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/23/19 07:42	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/23/19 07:42	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/23/19 07:42	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/23/19 07:42	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/23/19 07:42	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/23/19 07:42	
2-Chlorotoluene	ug/L	<0.93	5.0	04/23/19 07:42	
4-Chlorotoluene	ug/L	<0.76	2.5	04/23/19 07:42	
Benzene	ug/L	<0.25	1.0	04/23/19 07:42	
Bromobenzene	ug/L	<0.24	1.0	04/23/19 07:42	
Bromochloromethane	ug/L	<0.36	5.0	04/23/19 07:42	
Bromodichloromethane	ug/L	<0.36	1.2	04/23/19 07:42	
Bromoform	ug/L	<4.0	13.2	04/23/19 07:42	
Bromomethane	ug/L	<0.97	5.0	04/23/19 07:42	
Carbon tetrachloride	ug/L	<0.17	1.0	04/23/19 07:42	
Chlorobenzene	ug/L	<0.71	2.4	04/23/19 07:42	
Chloroethane	ug/L	<1.3	5.0	04/23/19 07:42	
Chloroform	ug/L	<1.3	5.0	04/23/19 07:42	
Chloromethane	ug/L	<2.2	7.3	04/23/19 07:42	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/23/19 07:42	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/23/19 07:42	
Dibromochloromethane	ug/L	<2.6	8.7	04/23/19 07:42	
Dibromomethane	ug/L	<0.94	3.1	04/23/19 07:42	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/23/19 07:42	
Diisopropyl ether	ug/L	<1.9	6.3	04/23/19 07:42	
Ethylbenzene	ug/L	<0.22	1.0	04/23/19 07:42	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

METHOD BLANK: 1854198 Matrix: Water
Associated Lab Samples: 40186128021, 40186128022, 40186128023, 40186128024, 40186128025, 40186128026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/23/19 07:42	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/23/19 07:42	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/23/19 07:42	
Methylene Chloride	ug/L	<0.58	5.0	04/23/19 07:42	
n-Butylbenzene	ug/L	<0.71	2.4	04/23/19 07:42	
n-Propylbenzene	ug/L	<0.81	5.0	04/23/19 07:42	
Naphthalene	ug/L	<1.2	5.0	04/23/19 07:42	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/23/19 07:42	
sec-Butylbenzene	ug/L	<0.85	5.0	04/23/19 07:42	
Styrene	ug/L	<0.47	1.6	04/23/19 07:42	
tert-Butylbenzene	ug/L	<0.30	1.0	04/23/19 07:42	
Tetrachloroethene	ug/L	<0.33	1.1	04/23/19 07:42	
Toluene	ug/L	<0.17	5.0	04/23/19 07:42	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/23/19 07:42	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/23/19 07:42	
Trichloroethene	ug/L	<0.26	1.0	04/23/19 07:42	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/23/19 07:42	
Vinyl chloride	ug/L	<0.17	1.0	04/23/19 07:42	
Xylene (Total)	ug/L	<1.5	3.0	04/23/19 07:42	
4-Bromofluorobenzene (S)	%	87	70-130	04/23/19 07:42	
Dibromofluoromethane (S)	%	97	70-130	04/23/19 07:42	
Toluene-d8 (S)	%	97	70-130	04/23/19 07:42	

LABORATORY CONTROL SAMPLE: 1854199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	70-130	
1,1,2-Trichloroethane	ug/L	50	50.7	101	70-130	
1,1-Dichloroethane	ug/L	50	55.2	110	73-150	
1,1-Dichloroethene	ug/L	50	54.5	109	73-138	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.3	81	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	52.8	106	70-130	
1,2-Dichloroethane	ug/L	50	50.6	101	75-140	
1,2-Dichloropropane	ug/L	50	48.3	97	73-135	
1,3-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	52.0	104	70-130	
Benzene	ug/L	50	49.0	98	70-130	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	47.8	96	68-129	
Bromomethane	ug/L	50	46.4	93	18-159	
Carbon tetrachloride	ug/L	50	53.8	108	70-130	

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QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

LABORATORY CONTROL SAMPLE: 1854199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	54.0	108	70-130	
Chloroethane	ug/L	50	47.3	95	53-147	
Chloroform	ug/L	50	49.1	98	74-136	
Chloromethane	ug/L	50	33.2	66	29-115	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.1	88	70-130	
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dichlorodifluoromethane	ug/L	50	42.4	85	10-130	
Ethylbenzene	ug/L	50	54.9	110	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.6	105	70-130	
Methyl-tert-butyl ether	ug/L	50	48.1	96	54-137	
Methylene Chloride	ug/L	50	55.8	112	73-138	
Styrene	ug/L	50	52.3	105	70-130	
Tetrachloroethene	ug/L	50	54.9	110	70-130	
Toluene	ug/L	50	52.6	105	80-126	
trans-1,2-Dichloroethene	ug/L	50	57.1	114	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.1	88	70-130	
Trichloroethene	ug/L	50	52.8	106	70-130	
Trichlorofluoromethane	ug/L	50	55.3	111	76-147	
Vinyl chloride	ug/L	50	43.5	87	51-120	
Xylene (Total)	ug/L	150	168	112	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854630 1854631

Parameter	Units	40186128021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.3	51.3	103	103	70-130	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	48.2	48.6	96	97	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.6	52.6	103	105	70-137	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	56.0	56.6	112	113	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	54.7	56.3	109	113	73-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	52.4	54.3	105	109	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	44.5	44.8	89	90	58-129	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.0	53.8	104	108	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.6	54.3	107	109	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	51.2	52.2	102	104	75-140	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	48.8	48.8	98	98	71-138	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.9	52.3	102	105	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.2	52.9	104	106	70-130	1	20	
Benzene	ug/L	<0.25	50	50	49.3	50.2	99	100	70-130	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	53.2	54.7	106	109	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854630 1854631

Parameter	Units	40186128021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromoform	ug/L	<4.0	50	50	49.1	50.2	98	100	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	45.1	47.9	90	96	15-170	6	20	
Carbon tetrachloride	ug/L	<0.17	50	50	54.1	55.0	108	110	70-130	2	20	
Chlorobenzene	ug/L	<0.71	50	50	53.8	55.4	108	111	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	46.2	46.1	92	92	51-148	0	20	
Chloroform	ug/L	<1.3	50	50	48.6	49.8	97	100	74-136	2	20	
Chloromethane	ug/L	<2.2	50	50	32.0	32.7	64	65	23-115	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	48.0	49.4	96	99	70-131	3	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.7	46.2	89	92	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	53.4	55.2	107	110	70-130	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	41.0	42.1	82	84	10-132	3	20	
Ethylbenzene	ug/L	<0.22	50	50	54.5	56.7	109	113	80-125	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	52.8	54.7	106	109	70-130	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.9	49.6	98	99	51-145	1	20	
Methylene Chloride	ug/L	<0.58	50	50	55.1	56.0	110	112	73-140	2	20	
Styrene	ug/L	<0.47	50	50	52.0	53.3	104	107	70-130	2	20	
Tetrachloroethene	ug/L	<0.33	50	50	55.2	55.8	110	112	70-130	1	20	
Toluene	ug/L	<0.17	50	50	52.8	54.5	106	109	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	56.7	58.4	113	117	73-148	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	44.3	46.6	89	93	70-130	5	20	
Trichloroethene	ug/L	<0.26	50	50	54.0	54.7	108	109	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	55.8	55.1	112	110	74-147	1	20	
Vinyl chloride	ug/L	<0.17	50	50	41.6	42.7	83	85	41-129	3	20	
Xylene (Total)	ug/L	<1.5	150	150	170	175	113	116	70-130	3	20	
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						97	97	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60597994-1 KEP-PERIMETER WELLS
Pace Project No.: 40186128

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186128001	**TB 041619**	EPA 8260	319006		
40186128002	**MW-112**	EPA 8260	319006		
40186128003	**MW-101**	EPA 8260	319006		
40186128004	**MW-103**	EPA 8260	319006		
40186128005	**MW-102**	EPA 8260	319006		
40186128006	**MW-44**	EPA 8260	319006		
40186128007	**MW-107**	EPA 8260	319006		
40186128008	**MW-108**	EPA 8260	319006		
40186128009	**MW-108 DUP**	EPA 8260	319006		
40186128010	**MW-105**	EPA 8260	319006		
40186128011	**MW-113**	EPA 8260	319006		
40186128012	**MW-109**	EPA 8260	319006		
40186128013	**MW-31**	EPA 8260	319006		
40186128014	**MW-110**	EPA 8260	319006		
40186128015	**MW-114**	EPA 8260	319006		
40186128016	**MW-114 DUP**	EPA 8260	319006		
40186128017	**MW-111**	EPA 8260	319006		
40186128018	**MW-115**	EPA 8260	319006		
40186128019	**PZ-118**	EPA 8260	319006		
40186128020	**MW-116**	EPA 8260	319006		
40186128021	**MW-117**	EPA 8260	319007		
40186128022	**PZ-116**	EPA 8260	319007		
40186128023	**MW-79**	EPA 8260	319007		
40186128024	**MW-80**	EPA 8260	319007		
40186128025	**MW-81**	EPA 8260	319007		
40186128026	**MW-82**	EPA 8260	319007		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40186128

Page: 1 of 3

Section A — **Required** Client Information:

Company: AECOM - Milw
Address: 1555 N. River Center Dr., Suite 214
Milwaukee, WI 53212
Email To: Lanette.Altenbach@aecom.com
Phone: 414-577-1363 Fax:
Requested Due Date/TAT: Standard

Section B — **Required** Project Information:

Report To: Lanette Altenbach
Copy To: Joel Mackinney
Joel.mackinney@aecom.com
Purchase Order No.:
Project Name: KEP - Permieter Wells
Project Number: 60597994-1

Section C — Invoice Information:

Attention: Accounts Payable/Finance Department
Company Name: City of Kenosha
Address: 652 52nd St., Kenosha, WI 53140
Pace Quote Reference:
Pace Project Manager: Chris Hyska
Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER
__UST __RCRA OTHER____

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC X WI OTHER____

Section D — **Required** Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	TB 041619	WT	G			4/16/19	0900		2				X						X		001
2	MW-112	WT				4/16	0950		3				X						X		002
3	MW-101	WT				4/16	1110		3				X						X		003
4	MW-103	WT				4/16	1045		3				X						X		004
5	MW-102	WT				4/16	1135		3				X						X		005
6	MW-44	WT				4/16	1220		3				X						X		006
7	MW-107	WT				4/16	1245		3				X						X		007
8	MW-108	WT				4/16	1310		3				X						X		008
9	MW-108 Dup	WT				4/16	1310		3				X						X		009
10	MW-105	WT				4/16	1345		3				X						X		010
11	MW-113	WT				4/16	1440		3				X						X		011
12	MW-109	WT				4/16	1455		3				X						X		012

Additional Comments:

Total Metals: Fe, Ba, Cr, Pb, Ni

Dissolved Metals: Fe

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Joel Mackinney AECOM	4/18/19	0600	Mary Jannie	4/18/19	1030
Mary Jannie	4/18/19	1500			
Stacie Albert	4/19/19	0825	Denise Ulfie Pace	4/19/19	0825

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joel Mackinney + Stacie Albert

SIGNATURE of SAMPLER: Joel Mackinney

DATE Signed (MM / DD / YY): 4/17/19

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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40186128

Page: 2 of 3

Section A
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Address: 1555 N. River Center Dr., Suite 214	
Milwaukee, WI 53212	
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Phone: 414-577-1363	Fax:
Requested Due Date/TAT: Standard	

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Required Project Information:

Report To: Lanette Altenbach
Copy To: Joel Mackinney
Purchase Order No.:
Project Name: KEP - Permieter Wells
Project Number: 60597994-1

Section C
Invoice Information:

Attention: Accounts Payable/Finance Department
Company Name: City of Kenosha
Address: 652 52nd St., Kenosha, WI 53140
Pace Quote Reference:
Pace Project Manager: Chris Hyska
Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES _X_GROUND WATER __DRINKING WATER
__UST __RCRA OTHER________

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC _X_WI OTHER___

Section D Required Client Information

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

Valid Matrix Codes

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

Filtered (Y/N): N N N N N Y N

Requested Analysis: VOCs 8260; Residual Chlorine (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	MW-31	WT	G			4/16/19	1530		3				X					X		013
2	MW-110	WT	↓			4/16/19	1615		3				X					X		014
3	MW-114	WT				4/16	1630		3				X					X		015
4	MW-114 Dup	WT				4/16	1630		3				X					X		016
5	MW-111	WT				4/16	1705		3				X					X		017
6	MW-115	WT				4/16	1730		3				X					X		018
7	PZ-118	WT				4/17/19	1010		3				X					X		019
8	MW-116	WT				4/17	1015		3				X					X		020
9	MW-117	WT				4/17	1110		3				X					X		021
10	PZ-116	WT				4/17	1115		3				X					X		022
11	MW-79	WT				4/17	1225		3				X					X		023
12	MW-80	WT	↓			4/17	1230		3				X					X		024

Additional Comments:

Total Metals: Fe, Ba, Cr, Pb, Ni

Dissolved Metals: Fe

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Joel Mackinney	4/18/19	0600	Mary Fannin	4/18/19	10:30		Y/N	Y/N	Y/N
Mary Fannin	4/18/19	1500					Y/N	Y/N	Y/N
C Szlogoski	4/19/19	0825	[illegible] Pace	4/19/19	0825	ROI	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joel Mackinney + Stacie Albert

SIGNATURE of SAMPLER: Joel Mackinney

DATE Signed (MM / DD / YY): 4/17/19

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40186128

Page: 3 of 3

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Pace Quote Reference:
Pace Project Manager: Chris Hyska
Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER
__UST __RCRA OTHER________

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC X WI OTHER____

Section D Required Client Information

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

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

Filtered (Y/N): N N N N N Y N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	MW-81	WT	G			4/17/19	1320		3				X					X		025
2	MW-82	WT	G			4/17	1345		3				X					X		026
3		WT																		
4		WT																		
5		WT																		
6		WT																		
7		WT																		
8		WT																		
9		WT																		
10		WT																		
11		WT																		
12		WT																		

Additional Comments:

Total Metals: Fe, Ba, Cr, Pb, Ni
Dissolved Metals: Fe

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[signature] AECOM	4/18/19	0600	Mary Fam[illegible]	4/18/19	10:30	
Mary Fam[illegible]	4/18/19	1500				
[signature]	4/19/19	0825	[signature] Pace	4/19/19	0835	ROI

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joel Mackinney + Steve Albert
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/17/19

1426

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

Sample Preservation Receipt Form

Client Name: AECOM

Project # 40186128

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																		2															
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
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP2N	500 mL plastic HNO3
BP2Z	500 mL plastic NaOH, Znact
BP3U	250 mL plastic unpres
BP3C	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

DG9A	40 mL amber ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres

SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN:	

Client Name: AECOM

Sample Preservation Receipt Form

Project #: 40186128

Pace Analytical Services, LLC
1241 Bellevue Street, Suite
Green Bay, WI 5430

Pace Lab #	Glass							Plastic							Vials						Jars			General									
	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	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
021																		3															2.5 / 5 / 10
022																		3															2.5 / 5 / 10
023																		3															2.5 / 5 / 10
024																		3															2.5 / 5 / 10
025																		3															2.5 / 5 / 10
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																																	2.5 / 5 / 22
																																	2.5 / 5 / 23

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #: WO# : 40186128

40186128

Courier: ~~FCS~~ Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #:

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

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

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.01 /Corr:

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

Person examining contents: Date: 4-19-19 Initials: SCV

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

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒Yes ☐No ☐N/A	12.
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 413		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 4/19/19