Gannett Fleming

Excellence Delivered As Promised

September 14, 2017
File #47358.003

Mr. Kevin McKnight
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, WI 54901-9731

Re: Groundwater Monitoring Status Report
Koeller Center, 1020 – 1142 South Koeller Street
Oshkosh, Wisconsin
BRRTS: 02-71-547941

Dear Mr. McKnight:

On behalf of Koeller One, LLC, Gannett Fleming, Inc. is submitting this groundwater monitoring status report for the former dry cleaner facility located at 1142 South Koeller Street in the Koeller Center shopping mall site in Oshkosh. Figure 1 is a site location map, and Figure 2 shows the area of investigation at this site.

This report follows our April 17, 2017, *Closure Request* and the Wisconsin Department of Natural Resources' (WDNR) June 20, 2017, letter to the Livesey Company, the owner of the Koeller Center, denying site closure. In its June 2017 letter, the WDNR indicated that additional groundwater monitoring was necessary to establish whether the tetrachloroethylene (PCE) plume was stable or receding. The WDNR also indicated that, "Additional monitoring may be needed to define the degree and extent of contamination. The Department recommends you evaluate the need for piezometer installation for vertical definition of the groundwater plume." The WDNR also stated that, "Additional remedial action is needed in order to comply with the closure criteria of ch. NR 726. You should evaluate the use of additional remedial action such as chemical injection to facilitate remediation in the event groundwater trends do not stabilize."

This report summarizes the results of groundwater samples collected in July 2017 and addresses the other issues included in the WDNR's June 20th closure denial letter. For brevity, this report does not include a summary of the site history or previous sample results, except as appropriate

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to the discussion of the July 2017 groundwater sample analytical results and proposed work going forward. Please refer to Gannett Fleming's December 2016 *Groundwater Monitoring Status Report* and April 2017 *Closure Request* for a summary of the history of the site investigation and sample results through December 2016.

Recent Scope of Work (July 2017)

On July 6, 2017, Gannett Fleming conducted a round of groundwater monitoring at the Koeller One site at 1142 South Koeller Street in Oshkosh, Wisconsin. Monitoring activities included:

- Measuring groundwater elevations in all site wells – MW-1 through MW-7.
- Measuring remediation by natural attenuation (RNA) parameters in all wells. RNA parameters (dissolved oxygen [DO], oxidation-reduction potential [ORP], temperature, pH, and conductivity) were measured with a YSI 550 multi-meter in-situ in each of the wells prior to collecting groundwater samples (i.e. static conditions prior to purging).
- Collecting groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-6 for analyses of volatile organic compounds (VOCs). A duplicate sample was collected from MW-1, which has historically contained the highest PCE concentrations.
- Measuring a second round of RNA parameters in-situ in the wells that were sampled for VOCs.

Groundwater samples were collected from each of the wells and placed into laboratory-supplied containers with hydrochloric acid preservative. The groundwater samples were placed in a cooler with ice and shipped via overnight courier to Pace Analytical Laboratory of Green Bay, Wisconsin, for analysis of VOCs using EPA Method 8026B. The laboratory report for the groundwater samples collected in July 2017 is included with this report as Appendix A.

Field Measurements and Analytical Results

Table 1 presents the groundwater elevation data measured on July 6, 2017, and contains all previous measurements. Figure 3 shows the groundwater flow directions based on elevations measured in MW-1 through MW-7 on July 6, 2017. As shown on Figure 3, the groundwater flow direction measured in July 2017 was to the north-northwest beneath the PCE source area, then to the northeast further downgradient. This groundwater flow direction is consistent with

directions measured in April and July 2016 and discussed in Gannett Fleming's December 2016 *Groundwater Monitoring Status Report*.

Table 2 lists the analytical results of groundwater samples collected in July 2017 and contains the analytical results of samples previously collected from the monitoring wells on this site. PCE was the only compound measured in July 2017 at a concentration above its NR 140 enforcement standard (ES) of 5.0 μg/ℓ. Only groundwater samples collected from two wells (MW-1 and MW-3) contained PCE at concentrations above its NR 140 ES. The initial and duplicate samples collected from MW-1 contained 255 and 295 μg/ℓ of PCE, respectively. The PCE concentration measured in the groundwater sample collected from MW-3 was 28.7 μg/ℓ. The PCE concentrations measured in the July 2017 groundwater samples collected from MW-1 were the highest PCE concentrations measured to date. The PCE concentration measured in MW-3 in July 2017 was the second highest PCE concentration measured in that well: the duplicate sample collected from MW-3 in December 2014 had a PCE concentration of 48.7 μg/ℓ.

Discussion and Proposed Work

The lateral extent of PCE in the groundwater at concentrations above the NR 140 ES is defined by wells MW-2 and MW-4 through MW-7. As discussed in Gannett Fleming's January 2016 work plan, the PCE plume is likely several decades old, so we believe that if it has not already migrated to the locations of downgradient wells MW-4 through MW-6, as demonstrated by the analytical results of groundwater samples collected through July 2017, it is unlikely to do so in the future. We therefore do not believe that additional monitoring wells are needed to determine the lateral extent of PCE in the groundwater.

Regarding the WDNR's request to evaluate the need to install a piezometer to determine the vertical extent of PCE in the groundwater, we also do not believe that is necessary for the following reasons:

- The highest PCE concentration measured in the groundwater to date (295 μg/ℓ) is about 500 times less than the saturation concentration of PCE in groundwater (150,000 μg/ℓ). At concentrations above its saturation concentration, PCE becomes a dense non-aqueous phase liquid (DNAPL), and because the specific gravity of PCE (1.63 g/cm^3) is denser than water (1.0 g/cm^3), it will sink in an aquifer when present as a DNAPL, elongating the downward extent of the plume. However, PCE dissolved in the groundwater at low concentrations

migrates with the predominant horizontal and vertical groundwater flow directions. As mentioned above, the highest concentration of PCE in the groundwater measured to date is about 500 times below the concentration where it would act as a DNAPL, so we don't believe it would have sunk deeper into the groundwater unless there was/is a strong vertical gradient to facilitate that movement.

- We also do not believe there is a strong downward vertical gradient present at the site. We believe that the dense till beneath the site inhibits the lateral and vertical migration of groundwater in general and PCE in particular. This is exemplified by the ability to bail several of the monitoring wells dry while purging them before the groundwater samples are collected. The hydraulic conductivity of the till is 2.8×10^{-5} cm/sec based on baildown recovery tests conducted on MW-1. The low hydraulic conductivity limits the downward migration of dissolved-phase PCE in the groundwater, much as it has limited its horizontal migration.

- As would be expected with any conceptual site model for this type of site, the highest concentrations of PCE in the groundwater would occur in the capillary fringe above the water table where the PCE plume in vadose zone soil intersects with the groundwater. Under that conceptual site model/scenario, when a new PCE plume in the vadose zone first impacts the water table, the highest PCE concentrations in the groundwater would occur at the surface of the water table. Over time, PCE concentrations deeper is the aquifer <u>may</u> increase as 1) the water table fluctuates up and down and interacts with the PCE plume in the vadose zone and capillary fringe above the water table and, 2) a downward vertical gradient pulls the PCE downward.

  While PCE concentrations have increased in MW-1 since it was installed in 2006, we believe that is due to the relatively large fluctuations in the elevation of the water table (over 6.6 feet), along with the construction features of the well itself. As shown in Table 1, since groundwater monitoring activities began in October 2006, the depth to groundwater measured in MW-1 has fluctuated between 11.05 and 17.71 feet below the top of the well casing. The well casing for MW-1 is 0.3 foot below the ground surface (ft bgs), so the depth to water in MW-1 has fluctuated from 11.35 to 18.01 ft bgs since it was first measured in October 2006. MW-1 was constructed with a 10-foot-long screen placed between 17 to 27 ft bgs; therefore, the screened interval of MW-1 is completely submerged below the water

table except for periods when the depth to water was greater than 17 feet (16.70 ft below the top of its casing).

The relatively large fluctuation in the depth of the water caused the groundwater to interact with the higher PCE concentrations in the upper portion of the capillary fringe and vadose zone when the water table rose. When the elevation of the water table then decreased, the relatively high PCE concentrations in the groundwater were brought lower into the aquifer. The screened interval of MW-1 and the upper and lower elevations of the water table are shown on cross-sections A-A' and B-B' (Figures B.3.a.1 and B.3.a.2, respectively) included with GF's April 2017 *Closure Request.* Those figures are included with this report as Appendix B.

Our belief is that the downward migration of PCE in the aquifer was aided by the fluctuation in the water table's elevation and also by MW-1 itself, which serves as a vertical conduit/ preferential pathway through the till after the groundwater with the relatively high PCE concentrations gets into the well screen and filter pack. This belief is supported by the overall increasing trend in PCE concentrations measured in MW-1 since sampling began in October 2006.

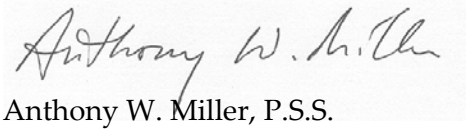
As discussed in the closure report, the dry cleaning facility at 1142 South Koeller Street operated from 1985 to 1994, so the PCE was released over 22 years ago. Had PCE migrated downward from the source area into the aquifer before MW-1 was installed, then one would have expected relatively elevated concentrations of PCE to have been already present in the portion of the aquifer that MW-1 is screened in before the first sample was collected. However, PCE concentrations slowly increased in pulses as the water table fluctuated over time. Had MW-1 been constructed so that its entire screened interval was within the upper and lower limits of the water table, we expect that the initial PCE concentrations measured in MW-1 would have been higher and that the trend in PCE concentrations in MW-1 would have been relatively more stable over time.

To address the WDNR's other point raised in its June 20th letter, Gannett Fleming and Koeller One, LLC are evaluating the feasibility of injecting reducing reagents into the groundwater to degrade PCE. If Koeller decides to pursue this remedial activity, it would be preceded by work plan and a WPDES permit application for the injection activities. No injection activities will be conducted without first receiving WDNR approval to do so.

The next round of samples is scheduled to be collected in early 2018. In the meantime, please review the enclosed information, and let us know if you have any questions or need additional information to complete your review.

Sincerely,

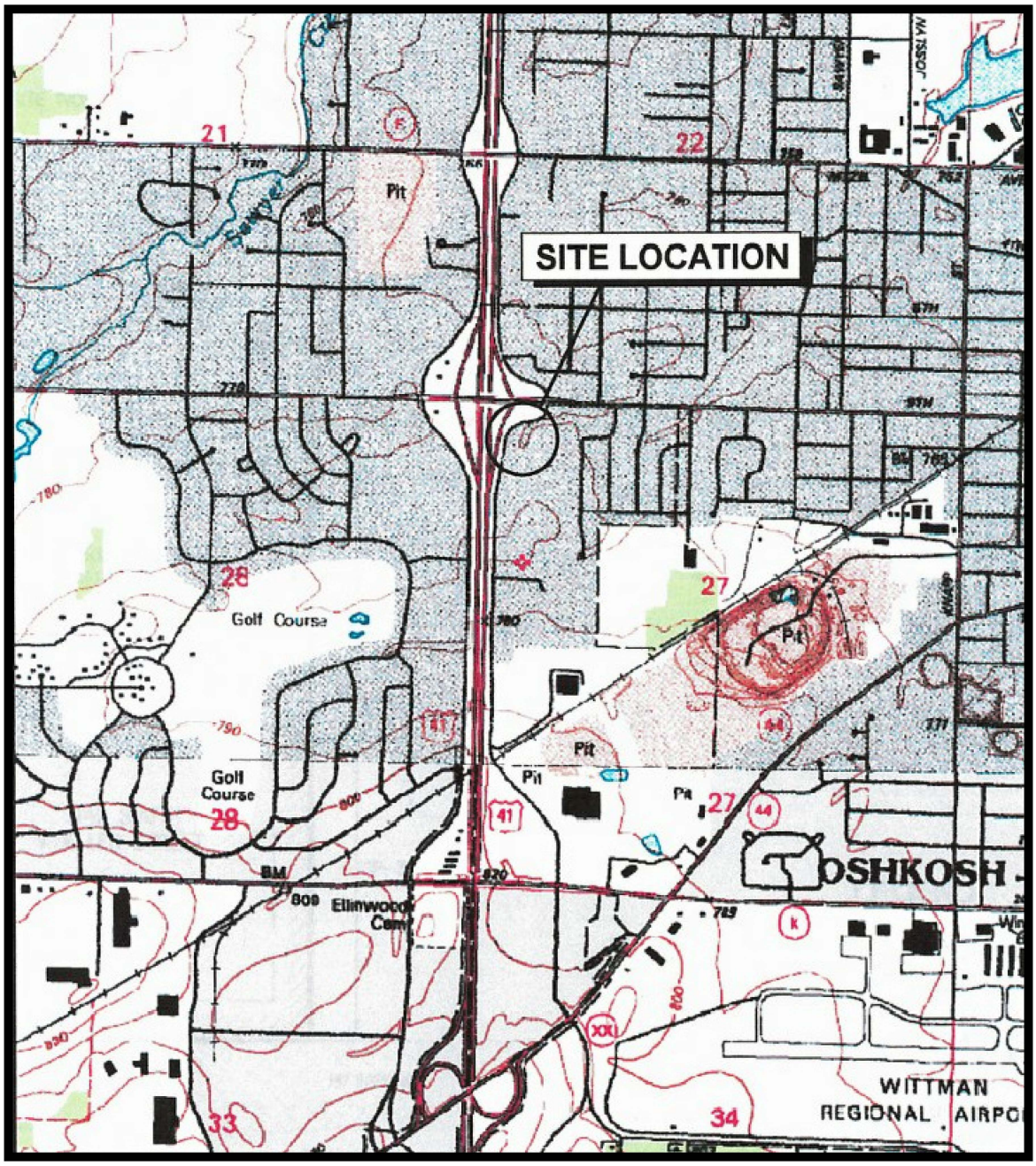
GANNETT FLEMING, INC.



Anthony W. Miller, P.S.S.
Senior Project Manager

AWM/jec
Enc.

ecc: Ryan Eley (Livesey Company, LLC)



SCALE: 1 INCH ~ 1800 FEET

7.5 MIN TOPOGRAPHIC MAP
OSHKOSH, WISCONSIN
1992

LOCATION MAP

KOELLER CENTER–OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

081517
awm_R47358-03_2017_01SR_F01

1 INCH ~ 375 FEET

AERIAL MAP

KOELLER CENTER–OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

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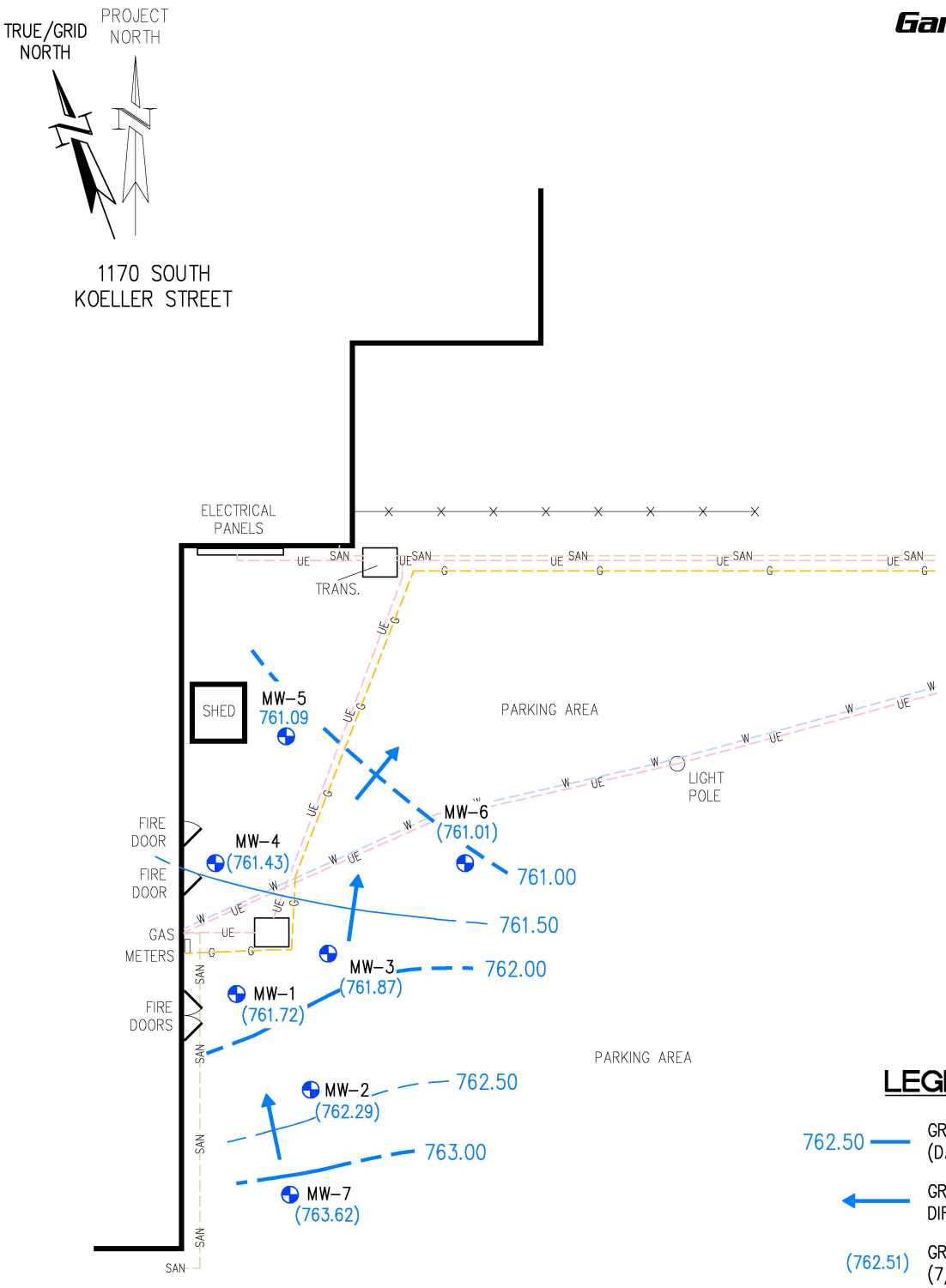
FIGURE 3



LEGEND

762.50 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

GROUNDWATER FLOW DIRECTION (7/6/17)

(762.51) GROUNDWATER ELEVATION (7/6/17)

MONITORING WELL

FENCE

NATURAL GAS

ELECTRICAL

WATER LINE

SANITARY

0 40

Approximate Scale In Feet

GROUNDWATER COUNTOUR MAP (JULY 2017)

KOELLER CENTER–OSHKOSH
KOELLER ONE, LLC.
OSHKOSH, WISCONSIN

NOTE

1. LOCATIONS OF UTILITIES ARE APPROXIMATE.

070717
awm_R47358-003_2017_01SR_F03

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KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 1

GROUNDWATER ELEVATIONS

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Date Installed	9/7/2006	8/14/2008	8/14/2008	5/23/2013	3/28/2016	3/28/2016	3/28/2016
TOC Elevation[1,3]	774.19	773.87	774.17	774.25	774.10	773.57	774.04
Top of Screen	757.45	762.13	762.43	762.51	765.8	764.18	763.91
Bottom of Screen	747.45	747.13	747.43	747.51	750.8	749.18	748.91
Depth to Water (ft)							
10/31/06	16.44	NI	NI	NI	NI	NI	NI
01/10/07	15.82	NI	NI	NI	NI	NI	NI
05/17/07	14.62	NI	NI	NI	NI	NI	NI
08/14/08	14.45	NI	NI	NI	NI	NI	NI
08/21/08	15.20	14.42	14.97	NI	NI	NI	NI
01/28/09	17.71	17.10	17.56	NI	NI	NI	NI
04/08/09	12.71	11.81	12.36	NI	NI	NI	NI
06/14/13[2]	16.78	11.80	12.56	13.34	NI	NI	NI
09/12/13	15.11	14.55	15.25	15.35	NI	NI	NI
03/14/14	16.37	16.05	16.60	16.56	NI	NI	NI
07/10/14	11.84	11.10	11.62	12.20	NI	NI	NI
11/19/14	14.80	14.27	14.84	15.12	NI	NI	NI
12/04/14	14.59	13.95	14.61	14.88	NI	NI	NI
03/28/16	11.05	10.45	10.78	11.41	11.51	11.06	13.51
04/12/16	11.12	10.33	10.54	11.48	11.62	11.09	9.21
06/03/16	13.04	12.10	NM [1]	13.36	13.52	13.01	10.79
06/22/16	13.39	12.50	13.23	13.76	13.95	13.45	11.10
07/14/16	14.28	13.37	14.18	14.61	14.78	14.31	12.26
08/01/16	13.85	12.95	13.76	14.39	14.48	13.98	11.47
09/01/16	14.89	13.82	14.76	14.98	15.41	14.93	12.18
10/05/16	13.58	12.83	13.52	14.47	14.23	13.77	11.15
11/04/16	14.47	13.70	14.55	14.79	14.94	14.43	12.68
11/11/16	14.90	14.09	14.89	15.18	15.21	14.79	13.39
07/06/17	12.47	11.58	12.30	12.82	13.01	12.56	10.42
Water Elevation (ft amsl)							
10/31/06	757.75	NI	NI	NI	NI	NI	NI
01/10/07	758.37	NI	NI	NI	NI	NI	NI
05/17/07	759.57	NI	NI	NI	NI	NI	NI
08/14/08	759.74	NI	NI	NI	NI	NI	NI
08/21/08	758.99	759.45	759.2	NI	NI	NI	NI
01/28/09	756.48	756.77	756.61	NI	NI	NI	NI
04/08/09	761.48	762.06	761.81	NI	NI	NI	NI
06/14/13[2]	757.41	762.07	761.61	760.91	NI	NI	NI
09/12/13	759.08	759.32	758.92	758.90	NI	NI	NI
03/14/14	757.82	757.82	757.57	757.69	NI	NI	NI
07/10/14	762.35	762.77	762.55	762.05	NI	NI	NI
11/19/14	759.39	759.60	759.33	759.13	NI	NI	NI
12/04/14	759.60	759.92	759.56	759.37	NI	NI	NI
03/28/16	763.14	763.42	763.39	762.84	762.59	762.51	760.53
04/12/16	763.07	763.54	763.63	762.77	762.48	762.48	764.83
06/03/16	761.15	761.77	NM	760.89	760.58	760.56	763.25

TABLE 1

GROUNDWATER ELEVATIONS

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Date Installed	9/7/2006	8/14/2008	8/14/2008	5/23/2013	3/28/2016	3/28/2016	3/28/2016
TOC Elevation[1,3]	774.19	773.87	774.17	774.25	774.10	773.57	774.04
Top of Screen	757.45	762.13	762.43	762.51	765.8	764.18	763.91
Bottom of Screen	747.45	747.13	747.43	747.51	750.8	749.18	748.91
06/22/16	760.80	761.37	760.94	760.49	760.15	760.12	762.94
07/14/16	759.91	760.50	759.99	759.64	759.32	759.26	761.78
08/01/16	760.34	760.92	760.41	759.86	759.62	759.59	762.57
09/01/16	759.30	760.05	759.41	759.27	758.69	758.64	761.86
10/05/16	760.61	761.04	760.65	759.78	759.87	759.80	762.89
11/04/16	759.72	760.17	759.62	759.46	759.16	759.14	761.36
11/11/16	759.29	759.78	759.28	759.07	758.89	758.78	760.65
07/06/17	761.72	762.29	761.87	761.43	761.09	761.01	763.62

NOTES:
TOC = Top of casing
NI = Not installed
amsl = above mean sea level
USGS Registered Benchmark = 776.04 feet amsl, top of nut of fire hydrant in front of Mitchell
Local Benchmark = 776.11 feet amsl, top of nut of fire hydrant, 240 feet east of MW-1.

FOOTNOTES:

(1) Revised top of well elevations for wells MW-1 through MW-4 surveyed were based on survey conducted on 3/14/14 using top of MW-1 well casing (774.19 ft msl) as benchmark.

(2) The inordinately deep groundwater elevation measured in MW-1 in June 2013 was likely due to field error caused by not allowing the water table to rise and stabilize after removing the air-tight cap. This phenomenon was discussed in more detail in Gannett Fleming's November 2013 *Site Investigation Report.*

(3) Wells MW-5, -6, and -7 were installed and surveyed on March 28, 2016. The top of MW-1 well casing (774.19 ft msl) was used as a benchmark. The top nut of the fire hydrant, approximately 240 feet east of MW-1, was measured at 776.10 feet amsl on 03/28/2016 and 4/12/2016.

Gannett Fleming

KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 2

SUMMARY OF DETECTED VOCs IN GROUNDWATER

Date	PCE	TCE	Dichloro-difluoro-methane	1,2,4-Tri-methyl-benzene	Benzene	Ethyl-benzene	Xylenes	Styrene	Toluene
NR 140 PAL	0.5	0.5	200	96	0.5	140	400	10	160
NR 140 ES	5.0	5.0	1,000	480	5.0	700	2,000	100	800
MW-1									
09/06/06	<0.50	<0.50	NA	NA	<0.50	<0.50	<1.0	NA	<0.50
10/31/06	*2.95*	0.27	0.90	<0.15	<0.15	<0.10	<0.50	<0.10	<0.40
01/10/07	**14.8**	<0.20	1.50	<0.15	<0.15	0.13 J	<0.50	<0.10	<0.40
05/17/07	**12.0**	<0.20	1.30	<0.20	<0.20	<0.10	<0.60	<0.10	<0.40
08/21/08	**54.4**	<0.40	1.95	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
01/28/09	**36.4**	<0.40	0.82 J	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
04/08/09	**28.7**	<0.40	1.22	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
06/14/13	**89.4**	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
09/12/13	**94.4**	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
03/13/14	**50.1**	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44
07/10/14	**92.3**	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
12/04/14	**110**	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
04/12/16	**185**	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	**213**	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
07/06/17	**255**	<0.83	<0.56	<1.2	<1.2	<1.2	<3.7	<1.2	<1.2
07/06/17-Dup	**295**	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
MW-2									
08/21/08	*0.88 J*	<0.40	1.62	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
01/28/09	*0.53 J*	<0.40	1.15	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
04/08/09	*0.87 J*	<0.40	1.12	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40
06/14/13	*1.5*	<0.43	0.48 J	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
09/12/13	*1.0*	<0.43	0.45 J	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
03/13/14	*0.88 J*	<0.36	0.45 J	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44
07/10/14	*2.0*	<0.33	0.43 J	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
12/04/14	*1.1*	<0.33	0.50 J	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
04/12/16	*0.95 J*	<0.33	0.44 J	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	*1.6*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
07/06/17	*1.9*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50

TABLE 2

SUMMARY OF DETECTED VOCs IN GROUNDWATER

Date	PCE	TCE	Dichloro-difluoro-methane	1,2,4-Tri-methyl-benzene	Benzene	Ethyl-benzene	Xylenes	Styrene	Toluene
NR 140 PAL	0.5	0.5	200	96	0.5	140	400	10	160
NR 140 ES	5.0	5.0	1,000	480	5.0	700	2,000	100	800
MW-3									
08/21/08	*4.80*	<0.40	0.36 J	0.22 J	*0.88*	1.09	4.39	0.14 J	2.21
01/28/09	*3.80*	<0.40	<0.30	0.21 J	0.27	0.72	2.62	0.12 J	0.65 J
04/08/09	**7.12**	<0.40	<0.30	<0.20	<0.20	0.36 J	1.34 J	<0.10	<0.40
06/14/13	**8.9**	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
09/12/13	*4.9*	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
03/13/14	**10**	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44
07/10/14	**22.9**	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
12/04/14	**26.0**	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
12/4/14 - Dup	**48.7**	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
04/12/16	**18.6**	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	**10.1**	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
07/06/17	**28.7**	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
MW-4									
06/14/13	<0.47	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
06/14/13 - Dup	<0.47	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
09/12/13	*0.77 J*	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
09/12/13 - Dup	*0.86 J*	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44
03/13/14	<0.47	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44
03/13/14 - Dup	<0.47	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44
07/10/14	*1.3*	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
12/04/14	*0.77 J*	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50
04/12/16	*1.2*	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	*0.98 J*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
07/06/17	*1.7*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
MW-5									
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
MW-6									
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
04/12/16 - Dup	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	*0.54 J*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
07/06/17	*0.64 J*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50

TABLE 2

SUMMARY OF DETECTED VOCs IN GROUNDWATER

Date	PCE	TCE	Dichloro-difluoro-methane	1,2,4-Tri-methyl-benzene	Benzene	Ethyl-benzene	Xylenes	Styrene	Toluene
NR 140 PAL	0.5	0.5	200	96	0.5	140	400	10	160
NR 140 ES	5.0	5.0	1,000	480	5.0	700	2,000	100	800
MW-7									
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50
11/11/16 - Dup	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50

NOTES:

Results are in micrograms per liter (µg/ℓ).

All samples except those collected in September 2006 were analyzed for a full suite of volatile organic compounds using EPA Method 8021 or EPA 8260B. Only compounds detected in one or more samples are shown on this table.

J = Estimated concentration below laboratory quantitation level.

PCE = Tetrachloroethylene

TCE = Trichloroethylene

NA = Not analyzed

NR 140 PAL & ES = NR 140 Preventative Action Limit and Enforcement Standard from Wisconsin Register February 2017, No. 734.

Concentrations above the NR 140 PAL are shaded; concentrations between the NR 140 PAL and ES are in italics, and concentrations above the NR 140 ES are in bold.

The trip blank used with the January 2009 samples contained 0.84 J µg/ℓ of chloromethane as did MW-1 (0.47 J µg/ℓ) and MW-2 (1.27 µg/ℓ).

KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 3

SUMMARY OF HISTORICAL RNA DATA FIELD MEASUREMENTS

Sample ID and Date	Temperature (Celsius)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-1					
06/15/13	14.5	0.375	2.70	7.3	-36.2
09/12/13	15.4	0.623	2.07	7.6	-77.1
07/06/17	14.8	0.513	3.26	7.7	57.2
07/06/17 (1)	15.4	0.742	3.82	7.9	27.3
MW-2					
06/15/13	13.7	3.465	1.87	7.0	-22.9
09/12/13	15.6	2.964	3.49	6.9	-56.5
07/06/17	13.9	5.395	0.42	6.9	7.6
07/06/17 (1)	13.5	5.141	0.58	6.8	31.3
MW-3					
06/15/13	14.0	2.013	1.35	6.9	24.0
09/12/13	15.1	1.427	3.12	7.0	-22.7
07/06/17	14.4	3.871	1.54	6.9	39.3
07/06/17 (1)	14.2	3.456	2.65	7.1	89.5
MW-4					
06/15/13	15.0	0.607	2.64	8.0	27.2
09/12/13	16.0	0.547	2.43	7.8	-6.3
07/06/17	15.9	0.676	2.65	7.8	11.6
07/06/17 (1)	14.5	0.551	0.68	7.8	55.0
MW-5					
07/06/17	16.1	1.660	4.9	7.3	34.3
MW-6					
07/06/17	14.4	3.095	0.33	7.1	14.8
07/06/17 (1)	14.2	2.850	0.34	7.0	43.4
MW-7					
07/06/17	15.5	6.310	2.52	6.9	77.7

NOTES:
RNA = Remediation through natural attenuation
mg/ℓ = milligrams per liter
mS/cm = microSiemens per centimeter
mV = millivolts
Water quality parameter data were collected using a YSI 556 multi-parameter meter.

FOOTNOTE:
(1) RNA parameters collected insitu after purging and sampling.

APPENDIX A

ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORD FOR GROUNDWATER SAMPLES COLLECTED IN JULY 2017

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

July 11, 2017

The laboratory report and QA/QC data were reviewed & approved by AWM on 07/13/17

Tony Miller
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Dear Tony Miller:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2017. 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,

Tod Noltemeyer

Tod Noltemeyer for
Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.

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

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152914001	**MW-1**	Water	07/06/17 14:10	07/08/17 08:10
40152914002	**MW-1 DUP**	Water	07/06/17 14:10	07/08/17 08:10
40152914003	**MW-2**	Water	07/06/17 11:20	07/08/17 08:10
40152914004	**MW-3**	Water	07/06/17 13:40	07/08/17 08:10
40152914005	**MW-4**	Water	07/06/17 12:45	07/08/17 08:10
40152914006	**MW-6**	Water	07/06/17 12:15	07/08/17 08:10
40152914007	**TRIP BLANK**	Water	07/06/17 00:00	07/08/17 08:10

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SAMPLE ANALYTE COUNT

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40152914001	**MW-1**	EPA 8260	LAP	63
40152914002	**MW-1 DUP**	EPA 8260	LAP	63
40152914003	**MW-2**	EPA 8260	LAP	63
40152914004	**MW-3**	EPA 8260	LAP	63
40152914005	**MW-4**	EPA 8260	LAP	63
40152914006	**MW-6**	EPA 8260	LAP	63
40152914007	**TRIP BLANK**	EPA 8260	LAP	63

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SUMMARY OF DETECTION

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40152914001	**MW-1**					
EPA 8260	Tetrachloroethene	255	ug/L	2.5	07/11/17 07:07	
40152914002	**MW-1 DUP**					
EPA 8260	Tetrachloroethene	295	ug/L	1.0	07/10/17 20:32	
40152914003	**MW-2**					
EPA 8260	Tetrachloroethene	1.9	ug/L	1.0	07/10/17 19:26	
40152914004	**MW-3**					
EPA 8260	Tetrachloroethene	28.7	ug/L	1.0	07/10/17 19:48	
40152914005	**MW-4**					
EPA 8260	Tetrachloroethene	1.7	ug/L	1.0	07/10/17 16:29	
40152914006	**MW-6**					
EPA 8260	Tetrachloroethene	0.64J	ug/L	1.0	07/10/17 17:13	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-1 **Lab ID: 40152914001** Collected: 07/06/17 14:10 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	2.5	0.45	2.5		07/11/17 07:07	630-20-6	
1,1,1-Trichloroethane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.62**	ug/L	2.5	0.62	2.5		07/11/17 07:07	79-34-5	
1,1,2-Trichloroethane	**<0.49**	ug/L	2.5	0.49	2.5		07/11/17 07:07	79-00-5	
1,1-Dichloroethane	**<0.60**	ug/L	2.5	0.60	2.5		07/11/17 07:07	75-34-3	
1,1-Dichloroethene	**<1.0**	ug/L	2.5	1.0	2.5		07/11/17 07:07	75-35-4	
1,1-Dichloropropene	**<1.1**	ug/L	2.5	1.1	2.5		07/11/17 07:07	563-58-6	
1,2,3-Trichlorobenzene	**<5.3**	ug/L	12.5	5.3	2.5		07/11/17 07:07	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	96-18-4	
1,2,4-Trichlorobenzene	**<5.5**	ug/L	12.5	5.5	2.5		07/11/17 07:07	120-82-1	
1,2,4-Trimethylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<5.4**	ug/L	12.5	5.4	2.5		07/11/17 07:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.44**	ug/L	2.5	0.44	2.5		07/11/17 07:07	106-93-4	
1,2-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	95-50-1	
1,2-Dichloroethane	**<0.42**	ug/L	2.5	0.42	2.5		07/11/17 07:07	107-06-2	
1,2-Dichloropropane	**<0.58**	ug/L	2.5	0.58	2.5		07/11/17 07:07	78-87-5	
1,3,5-Trimethylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	108-67-8	
1,3-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	541-73-1	
1,3-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	142-28-9	
1,4-Dichlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	106-46-7	
2,2-Dichloropropane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	594-20-7	
2-Chlorotoluene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	95-49-8	
4-Chlorotoluene	**<0.53**	ug/L	2.5	0.53	2.5		07/11/17 07:07	106-43-4	
Benzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	71-43-2	
Bromobenzene	**<0.58**	ug/L	2.5	0.58	2.5		07/11/17 07:07	108-86-1	
Bromochloromethane	**<0.85**	ug/L	2.5	0.85	2.5		07/11/17 07:07	74-97-5	
Bromodichloromethane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	75-27-4	
Bromoform	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	75-25-2	
Bromomethane	**<6.1**	ug/L	12.5	6.1	2.5		07/11/17 07:07	74-83-9	
Carbon tetrachloride	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	56-23-5	
Chlorobenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	108-90-7	
Chloroethane	**<0.94**	ug/L	2.5	0.94	2.5		07/11/17 07:07	75-00-3	
Chloroform	**<6.2**	ug/L	12.5	6.2	2.5		07/11/17 07:07	67-66-3	
Chloromethane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	74-87-3	
Dibromochloromethane	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	124-48-1	
Dibromomethane	**<1.1**	ug/L	2.5	1.1	2.5		07/11/17 07:07	74-95-3	
Dichlorodifluoromethane	**<0.56**	ug/L	2.5	0.56	2.5		07/11/17 07:07	75-71-8	L2
Ethylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	100-41-4	
Hexachloro-1,3-butadiene	**<5.3**	ug/L	12.5	5.3	2.5		07/11/17 07:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.36**	ug/L	2.5	0.36	2.5		07/11/17 07:07	98-82-8	
Methyl-tert-butyl ether	**<0.44**	ug/L	2.5	0.44	2.5		07/11/17 07:07	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	2.5	0.58	2.5		07/11/17 07:07	75-09-2	
Naphthalene	**<6.2**	ug/L	12.5	6.2	2.5		07/11/17 07:07	91-20-3	
Styrene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	100-42-5	
Tetrachloroethene	**255**	ug/L	2.5	1.2	2.5		07/11/17 07:07	127-18-4	
Toluene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-1 **Lab ID: 40152914001** Collected: 07/06/17 14:10 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.83**	ug/L	2.5	0.83	2.5		07/11/17 07:07	79-01-6	
Trichlorofluoromethane	**<0.46**	ug/L	2.5	0.46	2.5		07/11/17 07:07	75-69-4	
Vinyl chloride	**<0.44**	ug/L	2.5	0.44	2.5		07/11/17 07:07	75-01-4	
cis-1,2-Dichloroethene	**<0.64**	ug/L	2.5	0.64	2.5		07/11/17 07:07	156-59-2	
cis-1,3-Dichloropropene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	10061-01-5	
m&p-Xylene	**<2.5**	ug/L	5.0	2.5	2.5		07/11/17 07:07	179601-23-1	
n-Butylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	104-51-8	
n-Propylbenzene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	103-65-1	
o-Xylene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	95-47-6	
p-Isopropyltoluene	**<1.2**	ug/L	2.5	1.2	2.5		07/11/17 07:07	99-87-6	
sec-Butylbenzene	**<5.5**	ug/L	12.5	5.5	2.5		07/11/17 07:07	135-98-8	
tert-Butylbenzene	**<0.45**	ug/L	2.5	0.45	2.5		07/11/17 07:07	98-06-6	
trans-1,2-Dichloroethene	**<0.64**	ug/L	2.5	0.64	2.5		07/11/17 07:07	156-60-5	
trans-1,3-Dichloropropene	**<0.57**	ug/L	2.5	0.57	2.5		07/11/17 07:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		2.5		07/11/17 07:07	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		2.5		07/11/17 07:07	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2.5		07/11/17 07:07	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: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-1 DUP **Lab ID: 40152914002** Collected: 07/06/17 14:10 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 20:32	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 20:32	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 20:32	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 20:32	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 20:32	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 20:32	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 20:32	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 20:32	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 20:32	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 20:32	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 20:32	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 20:32	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 20:32	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 20:32	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 20:32	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 20:32	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 20:32	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 20:32	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 20:32	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 20:32	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 20:32	75-71-8	L2
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 20:32	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 20:32	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 20:32	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 20:32	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 20:32	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	100-42-5	
Tetrachloroethene	**295**	ug/L	1.0	0.50	1		07/10/17 20:32	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-1 DUP **Lab ID: 40152914002** Collected: 07/06/17 14:10 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 20:32	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 20:32	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 20:32	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 20:32	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 20:32	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 20:32	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 20:32	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 20:32	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 20:32	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 20:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		07/10/17 20:32	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		07/10/17 20:32	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/10/17 20:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-2 **Lab ID: 40152914003** Collected: 07/06/17 11:20 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:26	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 19:26	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 19:26	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 19:26	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 19:26	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 19:26	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 19:26	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:26	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:26	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:26	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 19:26	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:26	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 19:26	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 19:26	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:26	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 19:26	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 19:26	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 19:26	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 19:26	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 19:26	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 19:26	75-71-8	L2
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 19:26	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 19:26	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 19:26	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:26	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 19:26	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	100-42-5	
Tetrachloroethene	**1.9**	ug/L	1.0	0.50	1		07/10/17 19:26	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-2 **Lab ID: 40152914003** Collected: 07/06/17 11:20 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 19:26	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:26	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:26	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 19:26	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 19:26	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:26	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:26	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:26	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 19:26	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		07/10/17 19:26	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		07/10/17 19:26	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/10/17 19:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-3 **Lab ID: 40152914004** Collected: 07/06/17 13:40 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:48	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 19:48	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 19:48	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 19:48	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 19:48	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 19:48	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 19:48	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:48	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:48	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:48	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 19:48	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:48	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 19:48	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 19:48	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:48	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 19:48	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 19:48	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 19:48	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 19:48	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 19:48	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 19:48	75-71-8	L2
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 19:48	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 19:48	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 19:48	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:48	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 19:48	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	100-42-5	
Tetrachloroethene	**28.7**	ug/L	1.0	0.50	1		07/10/17 19:48	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-3 **Lab ID: 40152914004** Collected: 07/06/17 13:40 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 19:48	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:48	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:48	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 19:48	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 19:48	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 19:48	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 19:48	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 19:48	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 19:48	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 19:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		07/10/17 19:48	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		07/10/17 19:48	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		07/10/17 19:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-4 **Lab ID: 40152914005** Collected: 07/06/17 12:45 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:29	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 16:29	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 16:29	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 16:29	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 16:29	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 16:29	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 16:29	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:29	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:29	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:29	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 16:29	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:29	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 16:29	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 16:29	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:29	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 16:29	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 16:29	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 16:29	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 16:29	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	74-87-3	M1
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 16:29	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 16:29	75-71-8	L2,M0
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 16:29	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 16:29	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 16:29	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:29	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 16:29	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	100-42-5	
Tetrachloroethene	**1.7**	ug/L	1.0	0.50	1		07/10/17 16:29	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-4 **Lab ID: 40152914005** Collected: 07/06/17 12:45 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 16:29	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:29	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:29	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 16:29	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 16:29	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:29	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:29	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:29	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 16:29	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		07/10/17 16:29	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		07/10/17 16:29	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/10/17 16:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-6 **Lab ID: 40152914006** Collected: 07/06/17 12:15 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 17:13	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 17:13	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 17:13	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 17:13	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 17:13	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 17:13	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 17:13	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 17:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 17:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 17:13	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 17:13	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 17:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 17:13	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 17:13	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 17:13	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 17:13	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 17:13	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 17:13	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 17:13	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 17:13	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 17:13	75-71-8	L2
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 17:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 17:13	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 17:13	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 17:13	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 17:13	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	100-42-5	
Tetrachloroethene	**0.64J**	ug/L	1.0	0.50	1		07/10/17 17:13	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: MW-6 **Lab ID: 40152914006** Collected: 07/06/17 12:15 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 17:13	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 17:13	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 17:13	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 17:13	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 17:13	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 17:13	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 17:13	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 17:13	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 17:13	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 17:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		07/10/17 17:13	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		07/10/17 17:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		07/10/17 17:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: TRIP BLANK **Lab ID: 40152914007** Collected: 07/06/17 00:00 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:07	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		07/10/17 16:07	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		07/10/17 16:07	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/17 16:07	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		07/10/17 16:07	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		07/10/17 16:07	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 16:07	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:07	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:07	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		07/10/17 16:07	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:07	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		07/10/17 16:07	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		07/10/17 16:07	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:07	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		07/10/17 16:07	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		07/10/17 16:07	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		07/10/17 16:07	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		07/10/17 16:07	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		07/10/17 16:07	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		07/10/17 16:07	75-71-8	L2
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		07/10/17 16:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		07/10/17 16:07	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		07/10/17 16:07	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:07	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		07/10/17 16:07	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Sample: TRIP BLANK **Lab ID: 40152914007** Collected: 07/06/17 00:00 Received: 07/08/17 08:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		07/10/17 16:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:07	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:07	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 16:07	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		07/10/17 16:07	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		07/10/17 16:07	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		07/10/17 16:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		07/10/17 16:07	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/17 16:07	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		07/10/17 16:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		07/10/17 16:07	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		07/10/17 16:07	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		07/10/17 16:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

QC Batch: 260993 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40152914001, 40152914002, 40152914003, 40152914004, 40152914005, 40152914006, 40152914007

METHOD BLANK: 1537298 Matrix: Water
Associated Lab Samples: 40152914001, 40152914002, 40152914003, 40152914004, 40152914005, 40152914006, 40152914007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	07/10/17 12:01	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	07/10/17 12:01	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	07/10/17 12:01	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	07/10/17 12:01	
1,1-Dichloroethane	ug/L	<0.24	1.0	07/10/17 12:01	
1,1-Dichloroethene	ug/L	<0.41	1.0	07/10/17 12:01	
1,1-Dichloropropene	ug/L	<0.44	1.0	07/10/17 12:01	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	07/10/17 12:01	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	07/10/17 12:01	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	07/10/17 12:01	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	07/10/17 12:01	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	07/10/17 12:01	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	07/10/17 12:01	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	07/10/17 12:01	
1,2-Dichloroethane	ug/L	<0.17	1.0	07/10/17 12:01	
1,2-Dichloropropane	ug/L	<0.23	1.0	07/10/17 12:01	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	07/10/17 12:01	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	07/10/17 12:01	
1,3-Dichloropropane	ug/L	<0.50	1.0	07/10/17 12:01	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	07/10/17 12:01	
2,2-Dichloropropane	ug/L	<0.48	1.0	07/10/17 12:01	
2-Chlorotoluene	ug/L	<0.50	1.0	07/10/17 12:01	
4-Chlorotoluene	ug/L	<0.21	1.0	07/10/17 12:01	
Benzene	ug/L	<0.50	1.0	07/10/17 12:01	
Bromobenzene	ug/L	<0.23	1.0	07/10/17 12:01	
Bromochloromethane	ug/L	<0.34	1.0	07/10/17 12:01	
Bromodichloromethane	ug/L	<0.50	1.0	07/10/17 12:01	
Bromoform	ug/L	<0.50	1.0	07/10/17 12:01	
Bromomethane	ug/L	<2.4	5.0	07/10/17 12:01	
Carbon tetrachloride	ug/L	<0.50	1.0	07/10/17 12:01	
Chlorobenzene	ug/L	<0.50	1.0	07/10/17 12:01	
Chloroethane	ug/L	<0.37	1.0	07/10/17 12:01	
Chloroform	ug/L	<2.5	5.0	07/10/17 12:01	
Chloromethane	ug/L	<0.50	1.0	07/10/17 12:01	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	07/10/17 12:01	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	07/10/17 12:01	
Dibromochloromethane	ug/L	<0.50	1.0	07/10/17 12:01	
Dibromomethane	ug/L	<0.43	1.0	07/10/17 12:01	
Dichlorodifluoromethane	ug/L	<0.22	1.0	07/10/17 12:01	
Ethylbenzene	ug/L	<0.50	1.0	07/10/17 12:01	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	07/10/17 12:01	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

METHOD BLANK: 1537298 Matrix: Water
Associated Lab Samples: 40152914001, 40152914002, 40152914003, 40152914004, 40152914005, 40152914006, 40152914007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	07/10/17 12:01	
m&p-Xylene	ug/L	<1.0	2.0	07/10/17 12:01	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	07/10/17 12:01	
Methylene Chloride	ug/L	<0.23	1.0	07/10/17 12:01	
n-Butylbenzene	ug/L	<0.50	1.0	07/10/17 12:01	
n-Propylbenzene	ug/L	<0.50	1.0	07/10/17 12:01	
Naphthalene	ug/L	<2.5	5.0	07/10/17 12:01	
o-Xylene	ug/L	<0.50	1.0	07/10/17 12:01	
p-Isopropyltoluene	ug/L	<0.50	1.0	07/10/17 12:01	
sec-Butylbenzene	ug/L	<2.2	5.0	07/10/17 12:01	
Styrene	ug/L	<0.50	1.0	07/10/17 12:01	
tert-Butylbenzene	ug/L	<0.18	1.0	07/10/17 12:01	
Tetrachloroethene	ug/L	<0.50	1.0	07/10/17 12:01	
Toluene	ug/L	<0.50	1.0	07/10/17 12:01	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	07/10/17 12:01	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	07/10/17 12:01	
Trichloroethene	ug/L	<0.33	1.0	07/10/17 12:01	
Trichlorofluoromethane	ug/L	<0.18	1.0	07/10/17 12:01	
Vinyl chloride	ug/L	<0.18	1.0	07/10/17 12:01	
4-Bromofluorobenzene (S)	%	93	61-130	07/10/17 12:01	
Dibromofluoromethane (S)	%	98	67-130	07/10/17 12:01	
Toluene-d8 (S)	%	102	70-130	07/10/17 12:01	

LABORATORY CONTROL SAMPLE: 1537299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,2-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	71-132	
1,1-Dichloroethene	ug/L	20	18.6	93	75-130	
1,2,4-Trichlorobenzene	ug/L	20	17.1	85	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.6	78	63-123	
1,2-Dibromoethane (EDB)	ug/L	20	19.1	95	70-130	
1,2-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	20	19.0	95	70-131	
1,2-Dichloropropane	ug/L	20	18.1	90	80-120	
1,3-Dichlorobenzene	ug/L	20	18.9	95	70-130	
1,4-Dichlorobenzene	ug/L	20	20.7	103	70-130	
Benzene	ug/L	20	18.2	91	73-145	
Bromodichloromethane	ug/L	20	18.5	93	70-130	
Bromoform	ug/L	20	19.8	99	67-130	
Bromomethane	ug/L	20	12.4	62	26-128	
Carbon tetrachloride	ug/L	20	19.4	97	70-133	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

LABORATORY CONTROL SAMPLE: 1537299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroethane	ug/L	20	17.6	88	58-120	
Chloroform	ug/L	20	18.9	95	80-121	
Chloromethane	ug/L	20	8.0	40	40-127	
cis-1,2-Dichloroethene	ug/L	20	19.9	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	19.6	98	70-130	
Dichlorodifluoromethane	ug/L	20	3.5	18	20-135	L2
Ethylbenzene	ug/L	20	19.8	99	87-129	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	70-130	
m&p-Xylene	ug/L	40	39.1	98	70-130	
Methyl-tert-butyl ether	ug/L	20	21.0	105	66-143	
Methylene Chloride	ug/L	20	19.0	95	70-130	
o-Xylene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	18.5	93	70-130	
Tetrachloroethene	ug/L	20	20.8	104	70-130	
Toluene	ug/L	20	19.8	99	82-130	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	75-132	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	19.1	95	76-133	
Vinyl chloride	ug/L	20	12.2	61	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1537411 1537412

Parameter	Units	40152914005 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	<0.50	20	20	20.2	20.1	101	100	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	20	20	18.5	18.1	92	90	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	20	20	18.9	19.0	94	95	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	20	20	20.0	19.5	100	98	71-133	2	20	
1,1-Dichloroethene	ug/L	<0.41	20	20	18.7	18.2	94	91	75-136	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	20	20	15.0	14.7	75	73	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	20	20	15.6	15.8	78	79	63-123	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	20	20	18.5	17.9	92	90	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	20	20	18.5	18.4	93	92	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.17	20	20	18.3	18.4	92	92	70-131	0	20	
1,2-Dichloropropane	ug/L	<0.23	20	20	17.8	17.9	89	89	80-120	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	20	20	18.0	17.8	90	89	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	20	20	18.9	19.4	95	97	70-130	2	20	
Benzene	ug/L	<0.50	20	20	18.3	18.4	91	92	73-145	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1537411 1537412

Parameter	Units	40152914005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromodichloromethane	ug/L	<0.50	20	20	18.4	18.3	92	91	70-130	1	20	
Bromoform	ug/L	<0.50	20	20	18.8	19.2	94	96	67-130	2	20	
Bromomethane	ug/L	<2.4	20	20	13.1	11.5	65	58	26-129	13	20	
Carbon tetrachloride	ug/L	<0.50	20	20	19.3	19.4	97	97	70-134	0	20	
Chlorobenzene	ug/L	<0.50	20	20	19.0	19.6	95	98	70-130	3	20	
Chloroethane	ug/L	<0.37	20	20	17.1	16.5	86	83	58-120	4	20	
Chloroform	ug/L	<2.5	20	20	18.6	18.9	93	94	80-121	1	20	
Chloromethane	ug/L	<0.50	20	20	7.3	8.2	36	41	40-128	12	20	M1
cis-1,2-Dichloroethene	ug/L	<0.26	20	20	20.0	19.7	100	98	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	20	20	18.5	18.2	93	91	70-130	2	20	
Dibromochloromethane	ug/L	<0.50	20	20	18.4	18.8	92	94	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.22	20	20	3.4	4.2	17	21	20-146	19	20	M0
Ethylbenzene	ug/L	<0.50	20	20	18.9	19.1	95	95	87-129	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	20	20	19.1	18.8	95	94	70-130	1	20	
m&p-Xylene	ug/L	<1.0	40	40	39.1	37.3	98	93	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<0.17	20	20	21.2	20.4	106	102	66-143	4	20	
Methylene Chloride	ug/L	<0.23	20	20	18.8	18.6	94	93	70-130	1	20	
o-Xylene	ug/L	<0.50	20	20	19.0	18.7	95	94	70-130	1	20	
Styrene	ug/L	<0.50	20	20	17.6	18.1	88	91	70-130	3	20	
Tetrachloroethene	ug/L	1.7	20	20	21.7	21.1	100	97	70-130	3	20	
Toluene	ug/L	<0.50	20	20	19.2	19.4	96	97	82-131	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	20	20	19.8	20.6	99	103	75-135	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	20	20	19.6	19.8	98	99	70-130	1	20	
Trichloroethene	ug/L	<0.33	20	20	19.4	19.3	97	97	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.18	20	20	18.0	18.0	90	90	76-150	0	20	
Vinyl chloride	ug/L	<0.18	20	20	12.0	12.1	60	60	56-143	1	20	
4-Bromofluorobenzene (S)	%						98	98	61-130			
Dibromofluoromethane (S)	%						101	102	67-130			
Toluene-d8 (S)	%						101	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

QUALIFIERS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 47358.003 KOELLER ONE
Pace Project No.: 40152914

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152914001	**MW-1**	EPA 8260	260993		
40152914002	**MW-1 DUP**	EPA 8260	260993		
40152914003	**MW-2**	EPA 8260	260993		
40152914004	**MW-3**	EPA 8260	260993		
40152914005	**MW-4**	EPA 8260	260993		
40152914006	**MW-6**	EPA 8260	260993		
40152914007	**TRIP BLANK**	EPA 8260	260993		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Gannett Fleming
Branch/Location:	Madison, WI
Project Contact:	Anthony Miller
Phone:	608-836-1500
Project Number:	47358.003
Project Name:	Koeller One
Project State:	WI
Sampled By (Print):	Chelsea Payne
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	4015214
Mail To Contact:	Anthony Miller
Mail To Company:	Gannett Fleming
Mail To Address:	8025 Excelsior Dr Madison, WI 53717
Invoice To Contact:	See Mail to
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	608-836-1500

Page 26 of 27

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	7.6.17	14:10	GW	N	B	X		3-40mL VB	
002	MW-1 dup	"	"	"	"	"	"			
003	MW-2	"	11:20	"	"	"	"			
004	MW-3	"	13:40	"	"	"	"			
005	MW-4	"	12:45	"	"	"	"			
006	MW-~~3~~6	"	12:15	"	"	"	"			
007	Trip Blank	"		"	"	"	"		2-40mL VB	

7/18/17

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	7.7.17 9:00		
CS Logistics	7/8/17 08:10	Rivermen 2 Ramirez Pace	7/8/17 08:10

PACE Project No.
~~ROI~~ 4015214

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO# : 40152914**

40152914

Client Name: Gannett Fleming

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

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 N/A ROI 7/8/17 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: ROI **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

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

Person examining contents:
Date: 7/8/17
Initials: RMR

Comments:

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	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☒Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 381				

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

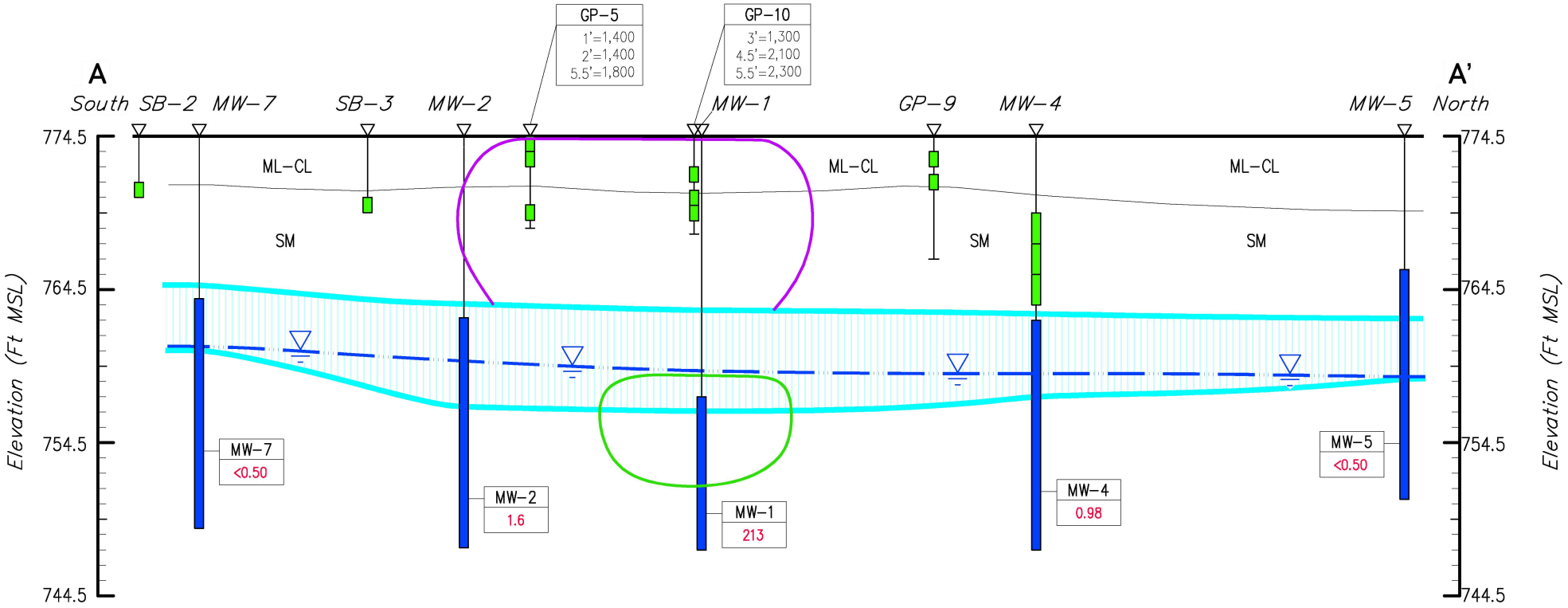
Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RMR for RM **Date:** 7/8/17

APPENDIX B

FIGURES FROM APRIL 2017 CLOSURE REQUEST



LEGEND

- PCE IN GROUNDWATER AT CONCENTRATIONS > NR 140 ES = 5.0 ug/L
- ESTIMATED EXTENT OF PCE IN SOIL ABOVE THE NR 720 SOIL TO GROUNDWATER PATHWAY RCL (4.5 µg/kg)
- HISTORIC GROUNDWATER TABLE ELEVATIONS
- WATER TABLE ELEVATION 11/11/16.
- GEOLOGIC CONTACT
- GROUND SURFACE

SB-2 — BORING OR WELL IDENTIFICATION

SOIL SAMPLE INTERVAL

GROUNDWATER SAMPLE INTERVAL

GP-5 / 1'-1,400 — BORING OR WELL I.D. / PCE CONCENTRATION IN SOIL (µg/kg) / SAMPLE DEPTH (FEET)

MW-7 / <0.50 — WELL I.D. / PCE CONCENTRATION IN GROUNDWATER (µg/L)

NOTES

1. SOIL SAMPLES WERE NON-DETECT (<25.0 µg/kg) FOR PCE UNLESS OTHERWISE NOTED. SEE TABLE A.2. FOR ANALYTICAL DATA.
2. PCE CONCENTRATIONS IN GROUNDWATER ARE IN µg/L MEASURED IN SAMPLES COLLECTED ON 11/11/16.

CROSS SECTION A-A':

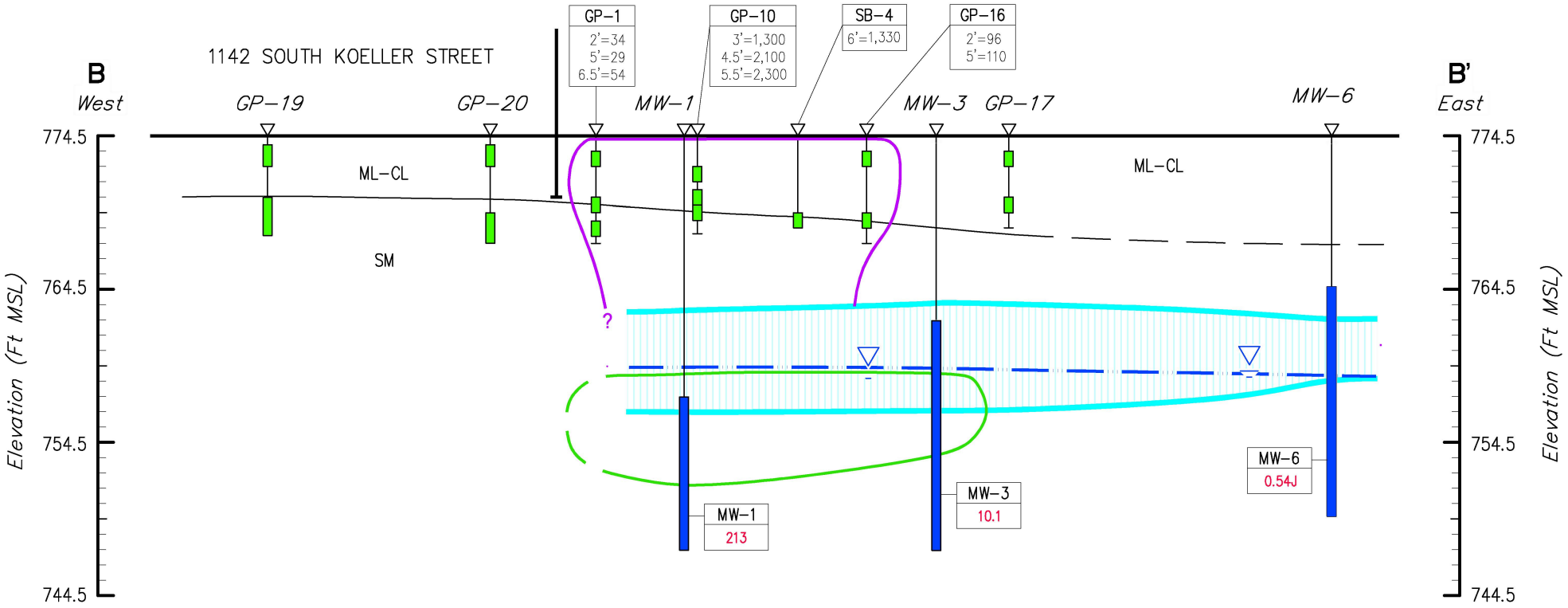
KOELLER CENTER-OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

Horizontal Scale: 1" = 15'
Vertical Scale: 1" = 10'
Horizontal Exaggeration: 1.5x

031717
awm_R47358-003_2017_01CR_B3a1

Gannett Fleming

FIGURE B.3.a.2



LEGEND

PCE IN GROUNDWATER AT CONCENTRATIONS > NR 140 ES = 5.0 ug/L (DASHED WHERE INFERRED)

ESTIMATED EXTENT OF PCE IN SOIL ABOVE THE NR 720 SOIL TO GROUNDWATER PATHWAY RCL (4.5 µg/kg)

HISTORIC GROUNDWATER TABLE ELEVATIONS

WATER TABLE ELEVATION 11/11/16.

GEOLOGIC CONTACT

GROUND SURFACE

SB-2 — BORING OR WELL IDENTIFICATION

SOIL SAMPLE INTERVAL

GROUNDWATER SAMPLE INTERVAL

SB-4 / 6'-1,330 — BORING OR WELL I.D. / PCE CONCENTRATION IN SOIL (µg/kg) / SAMPLE DEPTH (FEET)

MW-7 / <0.50 — WELL I.D. / PCE CONCENTRATION IN GROUNDWATER (µg/L)

NOTES

1. SOIL SAMPLES WERE NON-DETECT (<25.0 µg/kg) FOR PCE UNLESS OTHERWISE NOTED. SEE TABLE A.2. FOR ANALYTICAL DATA.
2. PCE CONCENTRATIONS IN GROUNDWATER ARE IN µg/L MEASURED IN SAMPLES COLLECTED ON 11/11/16.

CROSS SECTION B-B':

KOELLER CENTER-OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

Horizontal Scale: 1" = 15'
Vertical Scale: 1" = 10'
Horizontal Exaggeration: 1.5x

030317
awm_R47358-003_2017_01CR_B3a2