Gannett Fleming

Excellence Delivered As Promised

December 2, 2021
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. (GF) 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 is an aerial photo that shows the area of investigation.

On April 17, 2017, GF submitted a *Closure Request* that summarized site investigation and groundwater monitoring results through November 2016. On June 20, 2017, the WDNR sent a 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 of MW-1 through MW-4 and MW-6 was necessary to establish whether the tetrachloroethylene (PCE) plume was stable or receding. The WDNR's June 2017 letter also indicated that Koeller should evaluate whether additional investigation or remedial actions are necessary to obtain closure.

PCE concentrations measured in source area wells MW-1 through MW-3 decreased significantly over the last two sampling rounds in July 2020 and August 2021, while PCE concentrations measured in downgradient well MW-6 increased very slightly from 5.25 to 6.0 micrograms per liter (µg/ℓ). Based on those results and the WDNR's proposed changes to the NR 140 enforcement standard (ES) for PCE from 5.0 to 20 µg/ℓ, GF does not believe additional investigation or remediation is warranted at this time. GF plans to collect groundwater samples on a semi-annual basis until a stable or receding trend can be documented, and then request the WDNR to reconsider the site for closure.

Gannett Fleming, Inc.
8040 Excelsior Drive • Madison, WI 53717
t: 608-327-5050
www.**gannettfleming**.com

Scope of Work – July 2017 through August 2021

Since the WDNR's June 2017 letter, six rounds of groundwater samples have been collected. Sample collection dates are shown on the table below with an "x" indicating that the well was sampled on that date.

Sample Date	Well ID						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
07/06/17	x	x	x	x	-	x	-
01/08/18	x	x	x	x	-	x	-
08/01/18	x	x	x	x	-	x	-
03/12/19	x	x	x	x	-	x	-
09/18/19	x	x	x	x	x	x	x
12/13/19	x	x	x	x	x	x	x
07/08/20	x	x	x	x	x	x	x
08/18/21	x	x	x	x	x	x	x

GF's latest status report was submitted to the WDNR on January 30, 2020, and included the analytical results of groundwater samples collected through December 2019. A summary of groundwater monitoring activities conducted in the months of July 2020 and August 2021 are included in this report.

Periodic reporting of site remediation progress to the WDNR is required pursuant to ss. NR 700.11(1) and 724.13(3), Wisconsin Administrative Code. A completed certification page for the report is included with this report.

Recent Scope of Work (July 2020 – August 2021)

GF conducted groundwater monitoring activities on July 8, 2020, and August 18, 2021, that included:

- Measuring groundwater elevations in all site wells – MW-1 through MW-7.
- Measuring remediation by natural attenuation (RNA) parameters (dissolved oxygen [DO], oxidation-reduction potential [ORP], temperature, pH, and conductivity) in August 2021. RNA parameters were measured using a YSI 550 multi-meter in-situ in each of the wells prior to collecting groundwater samples (i.e., static conditions prior to purging), and then again after the well had been purged and sampled.

- Collecting groundwater samples from each monitoring well in July 2020 and August 2020 for analyses of volatile organic compounds (VOCs). Duplicate samples were collected from MW-6 in July 2020 and from MW-1 in August 2021.
- Additional samples were collected from MW-1 in August 2021 for analysis of 1,4-dioxane (1,4-D) and per- and polyfluoroalkyl substances (PFAS).

Groundwater samples collected from each well were placed into laboratory-supplied containers with preservatives, as required for each analysis. The groundwater samples were placed in a cooler with ice and shipped via overnight courier for laboratory analysis of VOCs using EPA Method 8260B. Samples collected in July 2020 and August 2021 were submitted to Pace Analytical Laboratory in Green Bay, Wisconsin, and ALS Laboratory Group in Holland, Michigan, respectively. The August 2021 samples collected from MW-1 were also submitted for analysis of 1,4-D and PFAS using EPA Methods 8260B and 537 Modified, respectively. The laboratory reports for groundwater samples collected in July 2020 and August 2021 are included with this report as Attachment A.

Field Measurements and Analytical Results

Table 1 presents depth to water (DTW) measurements and calculated groundwater elevation data in the site wells through August 2021 and includes previous measurements since 2006. Figures 3 and 4 show the groundwater flow direction based on elevations measured in MW-1 through MW-7 on July 8, 2020, and August 18, 2021, respectively. As shown on Figures 3 and 4, the groundwater flow direction in July 2020 and August 2021 was to the north-northeast between MW-7 and MW-2, then to the northeast further downgradient. The groundwater flow directions measured in 2020 and 2021 were consistent with directions measured since MW-5 through MW-7 were installed in March 2016.

Table 2 summarizes the analytical results of groundwater samples collected through August 2021, including the analytical results of samples previously collected from the monitoring wells.

- Duplicate results are averaged in Table 2 for statistical analysis/plotting, per December 2013 Interstate Technology & Regulatory Council guidance.
- PCE was the only compound measured in in July 2020 and August 2021 at concentrations above its NR 140 ES and Preventative Action Limit (PAL) of 5.0 and 0.5 micrograms per liter (µg/ℓ), respectively. Notable concentrations of PCE measured in MW-1, MW-2, MW-3, and MW-6 in July 2020 and August 2021 are discussed below.

Table 3 presents the results of the RNA parameters measured through August 2021 and includes previous measurements collected from the site wells since 2013. The pH of the groundwater

measured in source well MW-1 and downgradient well MW-3 has ranged from 6.7 to 7.9 since RNA parameters were first measured in June 2013. DO concentrations in those wells have ranged from 0.55 to 3.82 milligrams per liter (mg/ℓ) since June 2013. The relatively low DO concentrations and neutral pH values indicate that the aquifer would be conducive to reductive dechlorination if amendments were made to increase the activity of the microbes that facilitate the breakdown of chlorinated ethenes. However, GF does not believe that remediation is warranted at this time.

As discussed above, additional samples were collected from MW-1 in August 2021 for 1,4-D and PFAS analyses. 1,4-D was not detected (<0.44 µg/ℓ) in the groundwater sample collected from MW-1. Eight PFAS compounds were detected in the sample collected from MW-1. See Table 4 for specific PFAS compounds and concentrations measured in the groundwater sample collected from MW-1 in August 2021. These results are further discussed below.

Discussion

PCE Plume

Since groundwater monitoring began in September 2006, PCE has been the only VOC measured at concentrations above its NR 140 ES of 5.0 µg/ℓ, with source area well MW-1 historically containing the highest PCE concentrations. As shown in Table 2, PCE was measured at concentrations above its NR 140 ES in MW-1 and MW-6 in July 2020 and August 2021 and in MW-2 and MW-3 in July 2020 only.

Since reaching its maximum concentration of 275 µg/ℓ (the average of 255 and 295 µg/ℓ, measured in two duplicate samples) in July 2017, PCE concentrations in MW-1 have fluctuated slightly with an overall decreasing trend. The most recent sample and duplicate sample collected from MW-1 in August 2021 both contained 120 µg/ℓ of PCE. Likewise, PCE concentrations measured in MW-2 and MW-3 were the highest in July 2020 (5.6 µg/ℓ) and September 2019 (81.4 µg/ℓ), respectively, but then decreased to 2.7 and 4.2 µg/ℓ in August 2021. Water levels rose about 3.4 to 4.7 feet since January 2018, when the groundwater elevation was at a relative minimum, with the elevations measured in December 2019, July 2020, and August 2021 near historical maximum elevations. A chart showing the groundwater elevations and PCE concentrations measured in MW-1 since 2006 is included with this report as Attachment B. Figure 5 shows the estimated extent of PCE in the groundwater at concentrations at or above its NR 140 ES/PAL of 5/0.5 µg/ℓ on August 18, 2021.

GF believes the elevated PCE concentrations measured in the groundwater samples collected from MW-1 and other wells in September and December 2019 were due to the high water table coming into contact with PCE-impacted soil. However, as stated in our January 2020 status report, we believe the overall increase in dissolved-phase PCE concentrations was limited and that the residual mass of PCE in the soil was/is relatively small. That belief is supported by the

overall decreasing trend in PCE concentrations measured in source area wells MW-1 through MW-3 between December 2019 and August 2021, even though the water table remained at/near its historical maximum. Additionally, the hydraulic conductivity of the aquifer is relatively low (2.8×10^{-5} cm/sec) and inhibits the migration of the PCE in the groundwater, as evidenced by the relatively limited extent of PCE at concentrations above the NR 140 ES in the groundwater (about 70 feet) since the dry-cleaning facility associated with this property closed in 1994. There are no potable or municipal wells within 1,200 feet of the site, and the downgradient edge of the PCE plume is over 150 feet from the property line. Based on PCE concentrations measured in the soil and groundwater, GF does not believe there is enough mass of PCE in the source area to cause it to migrate offsite without being diluted to concentrations below the NR 140 PALs.

PCE concentrations in downgradient well MW-6 have increased slightly since it was first sampled in April 2016, with the sample collected in August 2021 containing 6.0 µg/ℓ. However, the increase in PCE concentrations in MW-6 has been relatively slow, and we believe the increasing trend will reverse itself as groundwater with lower PCE concentrations, as measured in MW-2 and MW-3 in August 2021, migrates further downgradient. Additionally, the WDNR is in the process of revising the NR 140 ES and PAL for PCE from 5.0/0.5 µg/ℓ to 20/2.0 µg/ℓ. After that revision is promulgated, the footprint of the PCE plume at concentrations above the NR 140 ES/PAL will dramatically decrease in size, as shown on Figure 6. For those reasons, GF does not believe additional investigation or remediation of the PCE plume is warranted at this time.

PFAS and 1.4-Dioxane Results

The PFAS and 1,4-D samples were collected from MW-1 because it has historically contained the highest concentrations of PCE, indicating it is in the source area where hazardous compounds associated with the former dry cleaner were released.

1,4-D was not detected in the groundwater sample collected from MW-1 in August 2021. Of the eight PFAS compounds detected in the sample from MW-1, only two compounds were measured at concentrations above their proposed NR 140 PAL recommended by the Wisconsin Department of Health Services: PFOA and PFOS were at 5.8 and 9.7 nanograms per liter (ng/ℓ) above their combined proposed NR 140 PAL of 2.0 ng/ℓ but below their combined proposed NR 140 ES of 20 ng/ℓ. All other PFAS compounds were measured at concentrations far below their proposed NR 140 ES and PALs. See Table 4 for the PFAS compounds and concentrations measured in the groundwater sample collected from MW-1 in August 2021. Based on the absence of 1,4-D and the relatively low concentrations of PFAS measured in source area well MW-1, GF does not believe that additional sampling for 1,4-D or PFAS is warranted.

Closing

Because of the low groundwater velocity and the relatively wide fluctuations in the water table elevation over the past 10 years, GF proposes to monitor PCE concentrations in the groundwater on a semiannual basis going forward. Groundwater monitoring activities will continue until stable/receding trends in PCE concentrations have been established. The next groundwater sampling events are scheduled for spring and fall 2022. A groundwater monitoring report will be submitted to the WDNR after the fall 2022 sample results have been received and evaluated. In the meantime, please let us know if you have any questions or need additional information to complete your review of this report.

Sincerely,

GANNETT FLEMING, INC.

Chelsea J. Payne, P.G.
Project Geologist

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

AWM/jec
Enc.

ecc: Ryan Eley (Livesey Company, LLC)

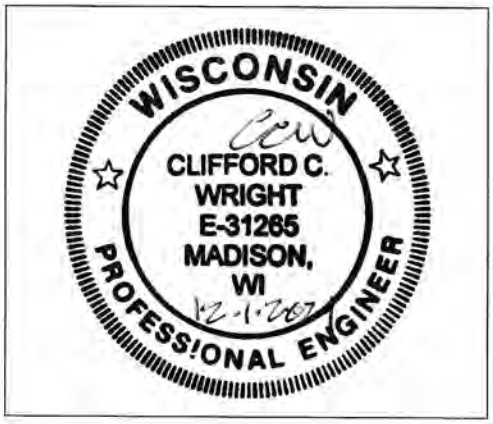
GF File

ENGINEERING AND HYDROGEOLOGIST CERTIFICATIONS

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all 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.

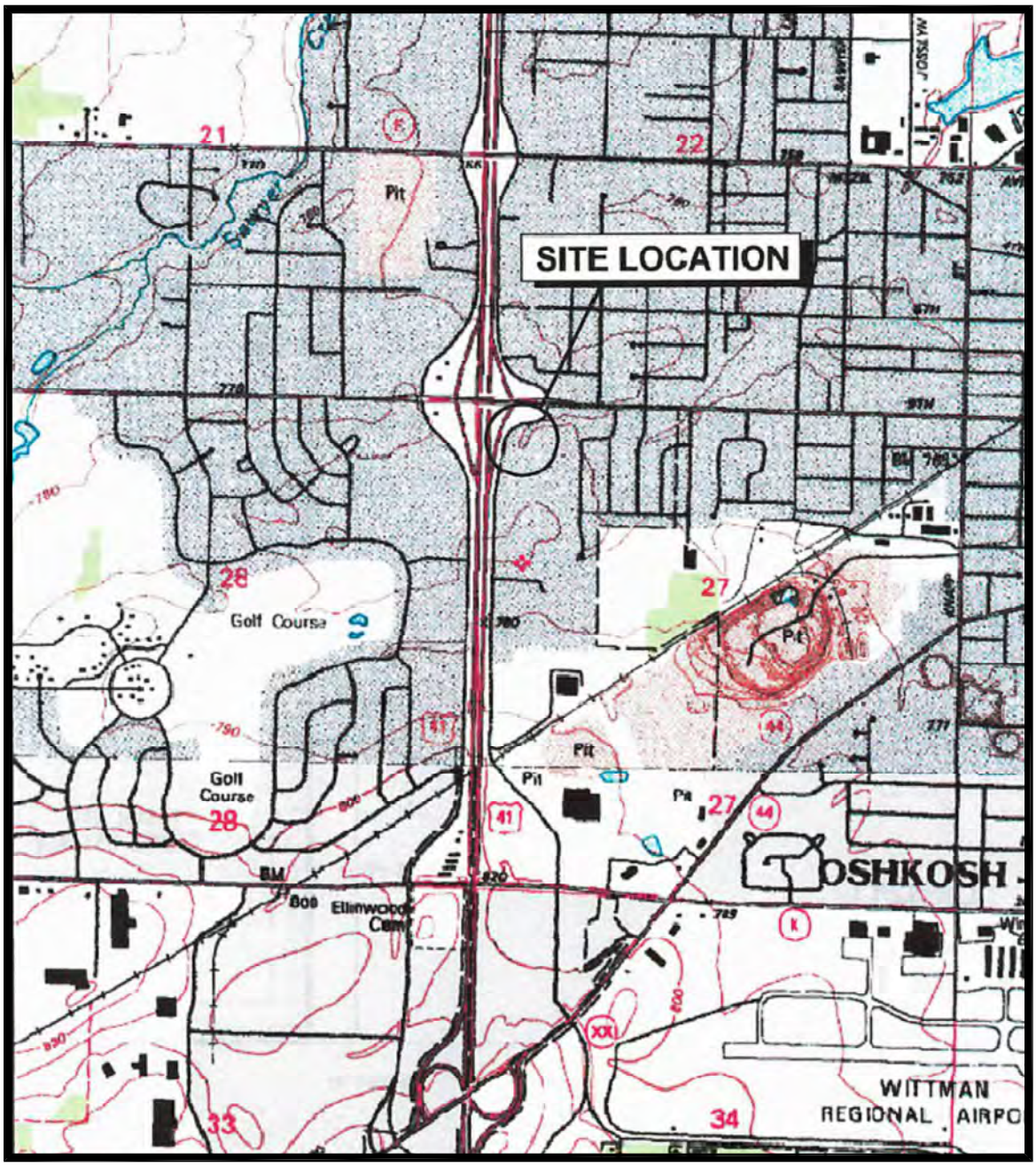
Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature Clifford C. Wright	Date 12-1-2021

P.E. Seal for E-31265:



I 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 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.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature Clifford C. Wright	Date 12-1-2021



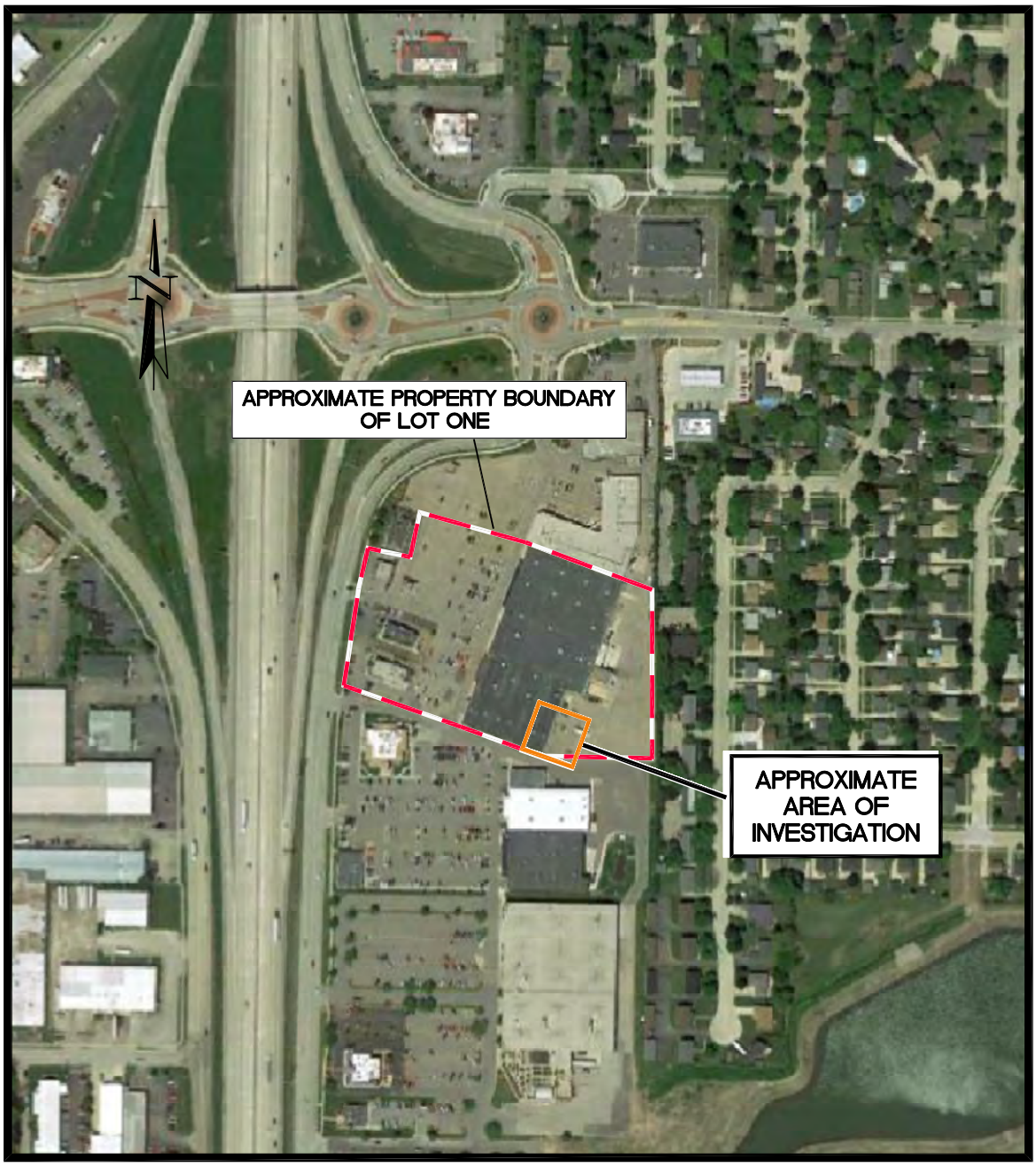
SCALE: 1 INCH ~ 1800 FEET

7.5 MIN TOPOGRAPHIC MAP
OSHKOSH, WISCONSIN
1992

LOCATION MAP

KOELLER CENTER–OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

080818
awm_R47358-003_2021_01MR_F01



1 INCH ~ 375 FEET

GOOGLE EARTH – 06/15

AERIAL PHOTO OF PARCEL AND AREA OF INVESTIGATION

KOELLER CENTER–OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN

042219
awm_R47358-003_2021_01MR_F02

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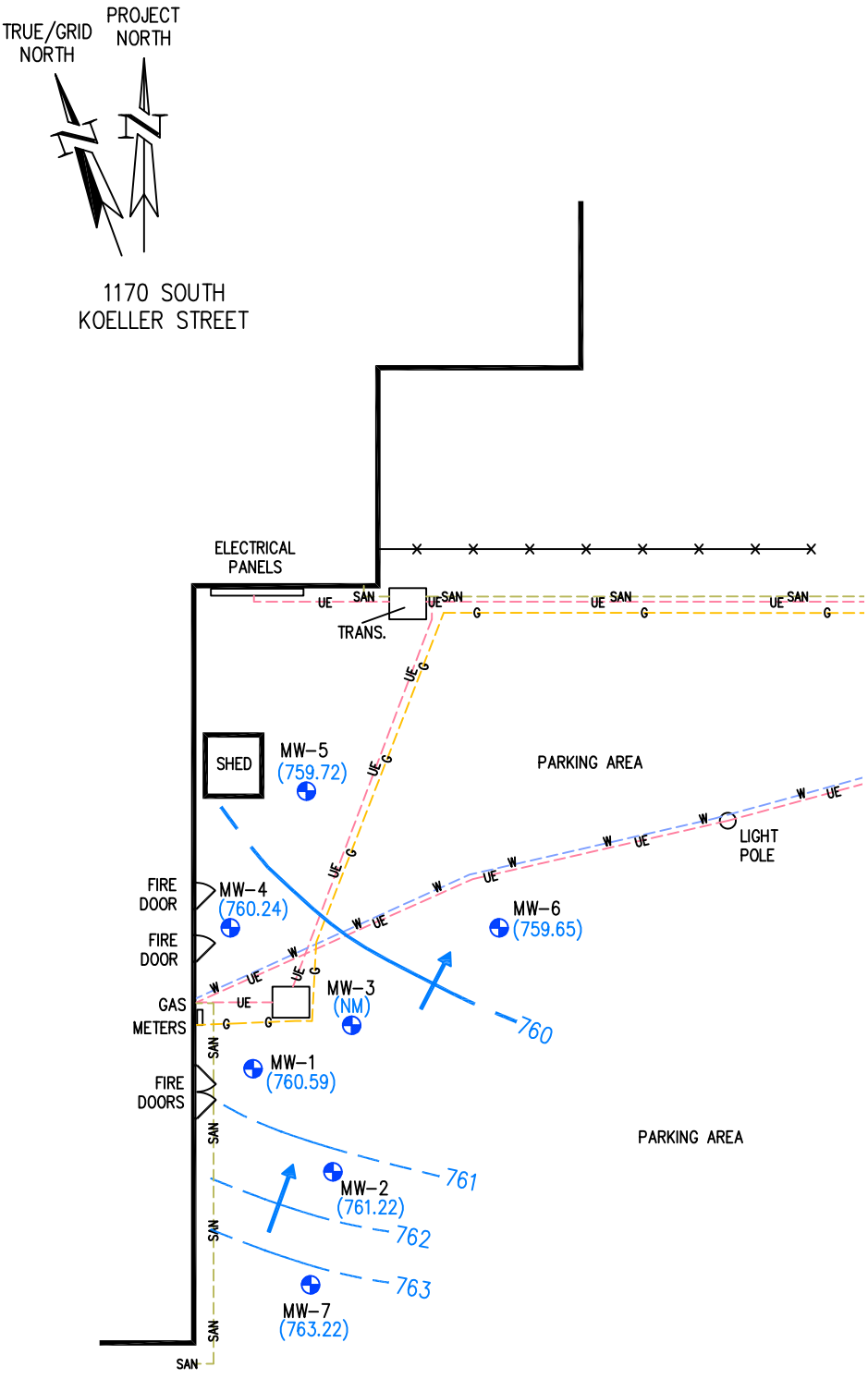
FIGURE 3



LEGEND

- 760 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION (07/08/20)
- MONITORING WELL
- FENCE
- G — UNDERGROUND NATURAL GAS
- UE — UNDERGROUND ELECTRICAL
- W — UNDERGROUND WATER LINE
- SAN — UNDERGROUND SANITARY SEWER

NOTES

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.

0 40

Approximate Scale In Feet

GROUNDWATER CONTOUR MAP (JULY 2020)

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

092021
awm_R47358-003_2021_01MR_F03

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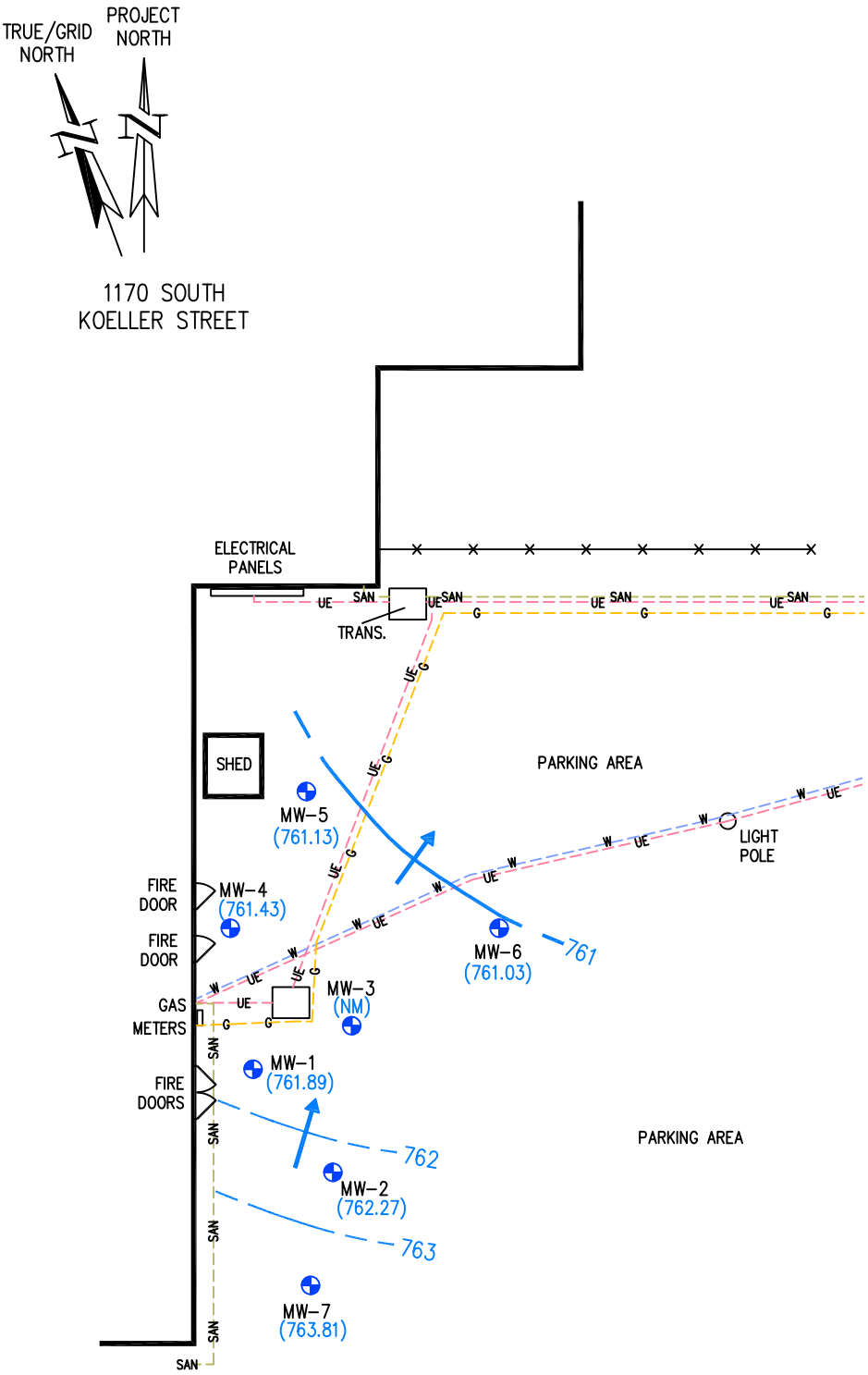
FIGURE 4



LEGEND

760 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

GROUNDWATER FLOW DIRECTION (08/18/2021)

MONITORING WELL

FENCE

G — UNDERGROUND NATURAL GAS

UE — UNDERGROUND ELECTRICAL

W — UNDERGROUND WATER LINE

SAN — UNDERGROUND SANITARY SEWER

NOTES

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.

0 40

Approximate Scale In Feet

GROUNDWATER CONTOUR MAP (AUGUST 2021)

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

120121
awm_R47358-003_2021_01MR_F04

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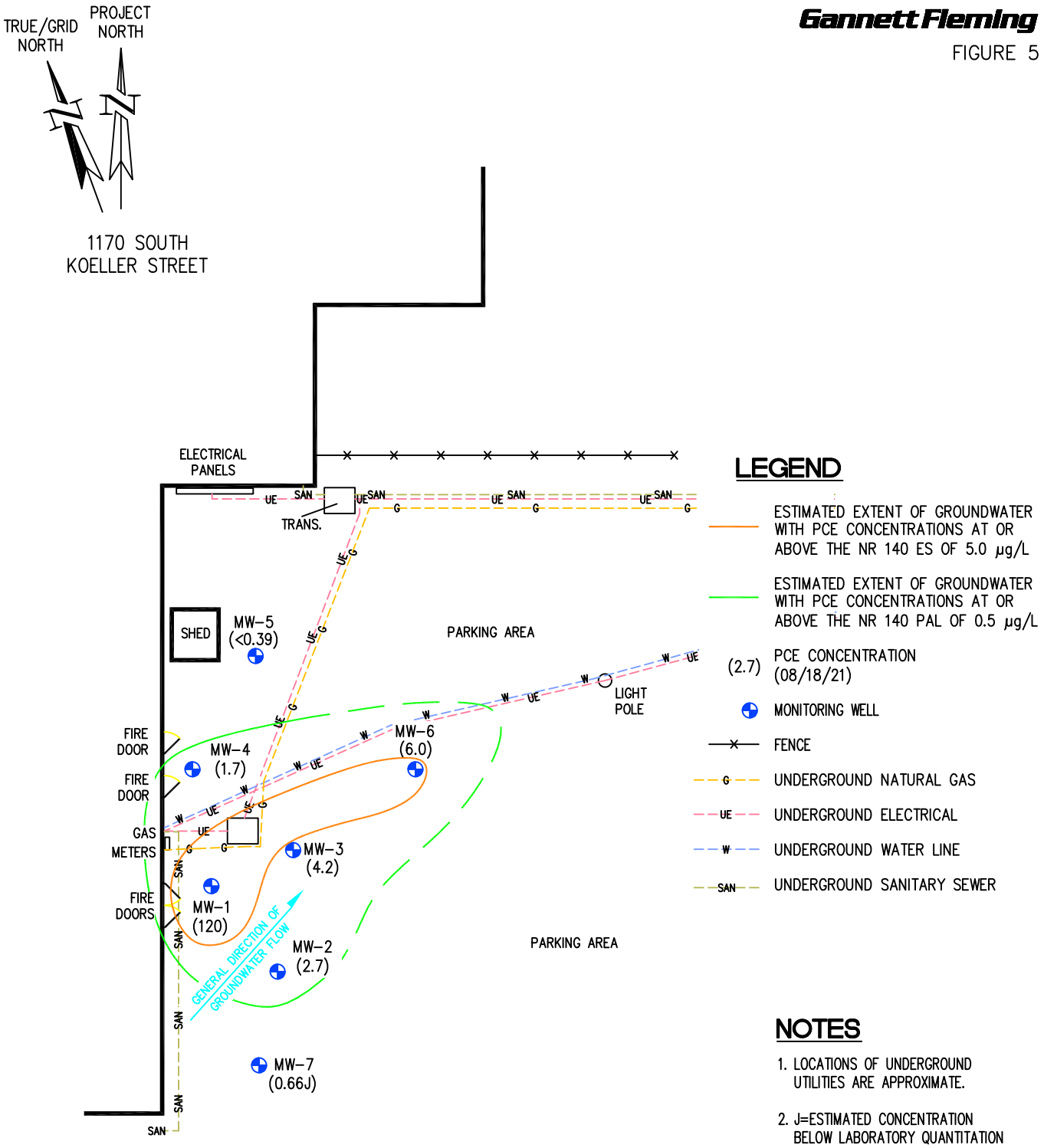
FIGURE 5



NOTES

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.
2. J=ESTIMATED CONCENTRATION BELOW LABORATORY QUANTITATION LEVEL.

0 40

Approximate Scale In Feet

PCE CONCENTRATIONS IN GROUNDWATER (AUGUST 2021)

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

092021
awm_R47358-003_2021_01MR_F05

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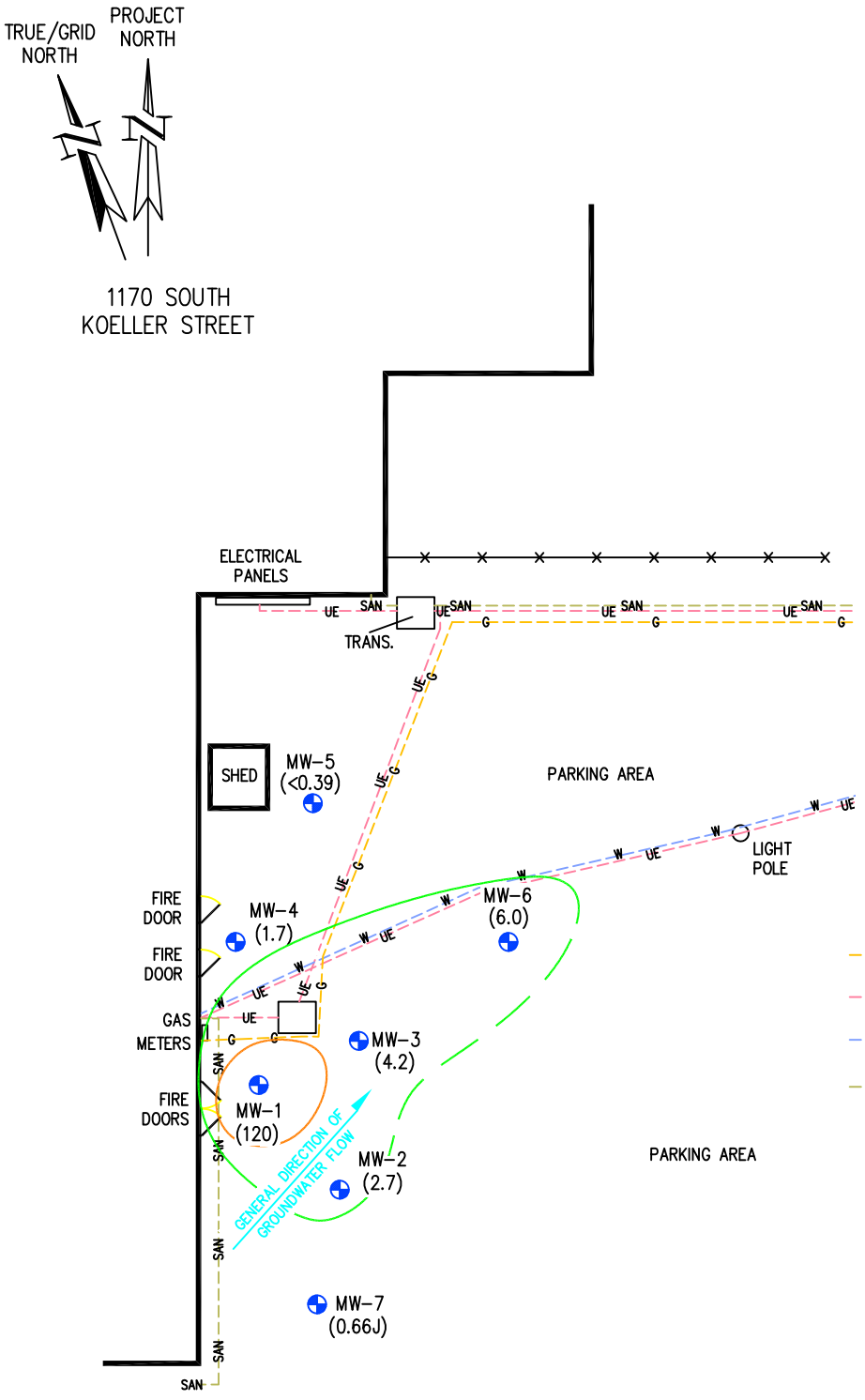
FIGURE 6



LEGEND

- ESTIMATED EXTENT OF GROUNDWATER WITH PCE CONCENTRATIONS AT OR ABOVE THE PROPOSED NR 140 ES OF 20 µg/L
- ESTIMATED EXTENT OF GROUNDWATER WITH PCE CONCENTRATIONS AT OR ABOVE THE PROPOSED NR 140 PAL OF 2.0 µg/L
- (2.7) PCE CONCENTRATION (08/18/21)
- MONITORING WELL
- FENCE
- G — UNDERGROUND NATURAL GAS
- UE — UNDERGROUND ELECTRICAL
- W — UNDERGROUND WATER LINE
- SAN — UNDERGROUND SANITARY SEWER

NOTES

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.
2. J=ESTIMATED CONCENTRATION BELOW LABORATORY QUANTITATION LEVEL.
3. PROPOSED NR 140 ES AND PAL OF 20 AND 2.0 µg/L RESPECTIVELY, WERE RECOMMENDED BY THE WISCONSIN DEPARTMENT OF HEALTH IN JUNE 2019.

0 40

Approximate Scale In Feet

ESTIMATED EXTENT OF PCE USING PROPOSED NR 140 ES & PAL (AUGUST 2021)

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

092021
awm_R47358-003_2021_01MR_F06

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KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

	Monitoring Well ID and Reference Information						
Well ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
Date Well Installed	**9/7/06**	**8/14/08**	**8/14/08**	**5/23/13**	**3/28/16**	**3/28/16**	**3/28/16**
Top of Casing Elevation (ft MSL)[1,2]	**774.19**	**773.87**	**774.17**	**774.25**	**774.10**	**773.57**	**774.04**
Top of Screen Elevation (ft MSL)	**757.45**	**762.13**	**762.43**	**762.51**	**765.8**	**764.18**	**763.91**
Bottom of Screen Elevation (ft MSL)	**747.45**	**747.13**	**747.43**	**747.51**	**750.8**	**749.18**	**748.91**
Measurement Date	Depth to Water (feet below top of casing)						
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[3]	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	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
01/08/18	16.61	16.07	16.61	16.77	16.72	16.33	15.75
08/01/18	14.21	13.37	14.05	14.55	14.79	14.35	11.95
03/12/19	15.10	14.39	NM[4]	15.50	15.63	15.22	13.74
09/18/19	13.65	12.80	NM[5]	14.37	14.42	13.95	11.10
12/13/19	12.54	11.59	NM[6]	13.08	13.31	12.83	10.08
07/08/20	13.60	12.65	NM[6]	14.01	14.38	13.92	10.82
08/18/21	12.30	11.60	NM[6]	12.82	12.97	12.54	10.23

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

	Monitoring Well ID and Reference Information						
Well ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**
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Top of Casing Elevation (ft MSL)[1,2]	**774.19**	**773.87**	**774.17**	**774.25**	**774.10**	**773.57**	**774.04**
Top of Screen Elevation (ft MSL)	**757.45**	**762.13**	**762.43**	**762.51**	**765.8**	**764.18**	**763.91**
Bottom of Screen Elevation (ft MSL)	**747.45**	**747.13**	**747.43**	**747.51**	**750.8**	**749.18**	**748.91**
Measurement Date	Water Elevation (ft MSL)						
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	759.20	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[3]	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
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
01/08/18	757.58	757.80	757.56	757.48	757.38	757.24	758.29
08/01/18	759.98	760.50	760.12	759.70	759.31	759.22	762.09
03/12/19	759.09	759.48	NM[4]	758.75	758.47	758.35	760.30
09/18/19	760.54	761.07	NM[5]	759.88	759.68	759.62	762.94
12/13/19	761.65	762.28	NM[6]	761.17	760.79	760.74	763.96
07/08/20	760.59	761.22	NM[6]	760.24	759.72	759.65	763.22
08/18/21	761.89	762.27	NM(6)	761.43	761.13	761.03	763.81

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

NOTES:
Site datum = feet above mean sea level (ft MSL).
USGS Registered Benchmark = 776.04 ft MSL, top of nut of fire hydrant in front of Mitchell Insurance at 1746 W. 9th Ave. (Source City of Oshkosh Engineering Department, 920-236-5065.)
Local Benchmark = 776.11 ft MSL, top of nut of fire hydrant, 240 feet east of MW-1.
NI = Not installed.
NM = Not measured.

FOOTNOTES:
(1) Top of casing elevations for MW-1 through MW-4 based on 03/14/14 survey using MW-1= 774.19 ft MSL as benchmark.
(2) MW-5 through MW-7 surveyed on 3/28/16 using MW-1 top of casing as benchmark. The top nut of the local benchmark fire hydrant was measured at 776.10 ft MSL on 3/28/16 and 4/12/16.
(3) The relatively deep groundwater elevation measured in MW-1 on 06/14/13 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.*
(4) On 03/12/19, the MW-3 top of casing was bent so that a water level probe could not reach past 8 inches below top of casing.
(5) On 09/18/19, the MW-3 top of casing was filled with sand and debris so DTW was not measured.
(6) The top of casing is damaged and therefore an accurate DTW could not be measured.

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TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/ℓ) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									
Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	Comments\Footnotes
NR 140 PAL	*0.5*	*0.5*	*200*	*96*	*0.5*	*140*	*1,000*	*10*	*200*	
NR 140 ES	**5.0**	**5.0**	**1,000**	**480**	**5.0**	**700**	**10,000**	**100**	**1,000**	
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	(1)
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	**275**	0.58 U	0.39 U	0.85 U	0.85 U	0.85 U	2.60 U	0.85 U	0.85 U	Dup
01/08/18	**192**	<0.83	<0.56	<1.2	<1.2	<1.2	<3.7	<1.2	<1.2	
08/01/18	**162**	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
03/12/19	**125**	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	Dup
09/18/19	**192**	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
12/13/19	**184**	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
07/08/20	**181**	<0.64	<1.2	<2.1	<0.62	<0.80	<1.85	<7.5	<0.67	
08/18/21	**120**	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	Dup
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	(1)
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	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/ℓ) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									
Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	Comments\Footnotes
NR 140 PAL	*0.5*	*0.5*	*200*	*96*	*0.5*	*140*	*1,000*	*10*	*200*	
NR 140 ES	**5.0**	**5.0**	**1,000**	**480**	**5.0**	**700**	**10,000**	**100**	**1,000**	
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	
01/08/18	*2.0*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	*2.5*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	(2)
03/12/19	*1.8*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	*2.6*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	**5.1**	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
07/08/20	**5.6**	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
08/18/21	*2.7*	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	
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 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	**37.4**	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	Dup
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	
01/08/18	**35.8**	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	Dup
08/01/18	**29.1**	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
03/12/19	**33.1**	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	**81.4**	*1.1*	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	**45.2**	*0.63* J	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup
07/08/20	**63.0**	0.30 J	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
08/18/21	*4.2*	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/ℓ) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									
Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	Comments\Footnotes
NR 140 PAL	*0.5*	*0.5*	*200*	*96*	*0.5*	*140*	*1,000*	*10*	*200*	
NR 140 ES	**5.0**	**5.0**	**1,000**	**480**	**5.0**	**700**	**10,000**	**100**	**1,000**	
MW-4										
06/14/13	<0.47	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
09/12/13	*0.82* J	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
03/13/14	<0.47	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
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	
01/08/18	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	*1.3*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	(2)
03/12/19	*0.96* J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	*1.5*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	*1.5*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
07/08/20	*1.3*	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
08/18/21	*1.7*	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	
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	
09/18/19	<0.33	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	0.26 J	
12/13/19	<0.33	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
07/08/20	<0.33	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
08/18/21	<0.39	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	
MW-6										
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	Dup
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	
01/08/18	*2.6*	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	*2.15*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup(2)
03/12/19	*3.0*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	*4.8*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	*4.7*	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/ℓ) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									
Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	Comments\Footnotes
NR 140 PAL	*0.5*	*0.5*	*200*	*96*	*0.5*	*140*	*1,000*	*10*	*200*	
NR 140 ES	**5.0**	**5.0**	**1,000**	**480**	**5.0**	**700**	**10,000**	**100**	**1,000**	
07/08/20	**5.3**	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
07/08/20	**5.2**	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	Dup
08/18/21	**6.0**	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	
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	Dup
09/18/19	*0.59* J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup(3)
12/13/19	*0.70* J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
07/08/20	*0.80* J	<0.26	<0.50	<0.84	<0.25	<0.32	<0.73	<3.0	<0.27	
08/18/21	*0.66* J	<0.43	<0.68	<0.45	<0.46	<0.34	<0.81	<0.33	<0.45	CM=0.86 µg/l

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

NOTES:
Concentrations are in micrograms per liter (µg/ℓ).
Detected concentrations at or above an NR 140 PAL are italicized and those at or above an NR 140 ES are bold.
Duplicate (Dup) results are averaged for statistical analysis/plotting, per December 2013 ITRC guidance.
All samples except those collected on 09/06/06 were analyzed for a full suite of VOCs using EPA Method 8021or EPA 8260B. Only compounds detected in one or more samples are shown on this table.
J = Estimated concentration below laboratory quantitation level.
NA = Not analyzed.
NR 140 ES = Wisconsin Administrative Code NR 140 Enforcement Standard.
NR 140 PAL = Wisconsin Administrative Code NR 140 Preventive Action Limit.
PCE = Tetrachloroethylene.
TCE = Trichloroethylene.
U = Compound not detected at or above the average of the limits of detection measured in the sample and its duplicate.

FOOTNOTES:
(1) The 01/28/09 trip blank contained 0.84 J µg/ℓ of chloromethane as did MW-1 (0.47 J µg/ℓ) and MW-2 (1.27 µg/ℓ).
(2) Methylene chloride was detected at concentrations above its method detection limit but below its quantitation limit in the samples collected on 08/01/18 from MW-2 (at 1.0 ug/ℓ), MW-4 (0.75 ug/ℓ), and the two samples collected from MW-6 (1.4 and 0.72 ug/ℓ).
(3) Chloromethane detected above its method detection limit but below its quantitation limit in the duplicate sample for MW-7 (2.5 ug/ℓ).

Gannett Fleming

KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 3

SUMMARY OF HISTORICAL RNA DATA FIELD MEASUREMENTS

Well ID / Measurement Date	Temperature (˚C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/ℓ)	pH	ORP (mV)	Comments/ Footnotes
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	15.4	0.742	3.82	7.9	27.3	(1)
01/08/18	14.4	0.443	0.56	7.4	68.2	
01/08/18	14.0	0.721	0.73	7.8	54.7	(1)
08/01/18	14.6	0.730	1.08	7.3	171.8	(2)
03/12/19	12.0	0.698	0.80	7.6	151.1	(2)
03/12/19	11.5	0.729	1.21	7.6	87.6	(3)
09/18/19	16.5	0.787	2.70	7.7	165.1	(2)
12/13/19	15.3	0.950	1.95	7.7	218.7	(2)
08/18/21	16.7	0.746	1.49	7.5	138.8	
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	13.5	5.141	0.58	6.8	31.3	(1)
01/08/18	14.4	4.837	0.40	6.3	137.5	
01/08/18	13.9	5.227	0.39	6.7	52.6	(1)
08/01/18	14.4	5.385	1.52	6.1	202.0	(2)
03/12/19	10.6	4.202	1.89	6.6	189.0	(2)
03/12/19	10.6	4.434	0.55	6.7	59.8	(3)
09/18/19	16.4	5.941	1.59	6.8	227.3	(3)
12/13/19	14.8	6.704	1.44	6.8	220.2	(2)
08/18/21	18.5	6.629	0.07	6.7	110.0	
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	14.2	3.456	2.65	7.1	89.5	(1)
01/08/18	10.3	2.732	0.65	6.7	92.7	
01/08/18	13.4	2.323	1.87	7.2	65.8	(1)
08/01/18	14.9	0.754	0.55	7.0	144.1	(2)
03/12/19	10.6	2.623	0.17	7.2	-82.6	(2)
09/18/19	16.8	0.915	2.34	7.3	-174.3	(2)
12/13/19	14.6	4.229	1.85	7.2	-28.2	(2)
08/18/21	16.8	1.173	0.05	7.3	109.0	
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	14.5	0.551	0.68	7.8	55.0	(1)

TABLE 3

SUMMARY OF HISTORICAL RNA DATA FIELD MEASUREMENTS

Well ID / Measurement Date	Temperature (˚C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/ℓ)	pH	ORP (mV)	Comments/ Footnotes
01/08/18	13.0	0.494	1.82	7.7	77.5	(1)
08/01/18	15.7	0.456	1.18	7.4	171.9	(2)
03/12/19	12.5	0.426	2.60	7.7	170.0	(2)
03/12/19	12.0	0.412	4.30	7.7	136.3	(3)
09/18/19	17.4	0.582	3.40	7.8	190.5	(2)
12/13/19	15.6	0.558	2.59	7.9	212.9	(2)
08/18/21	18.0	0.900	0.79	7.6	25.4	
MW-5						
07/06/17	16.1	1.660	4.9	7.3	34.3	
09/18/19	16.6	2.455	1.62	7.1	175.3	(2)
12/13/19	15.8	2.373	1.43	7.1	236.3	(2)
08/18/21	18.1	1.804	1.84	6.6	31.2	
MW-6						
07/06/17	14.4	3.095	0.33	7.1	14.8	
07/06/17	14.2	2.850	0.34	7.0	43.4	(1)
01/08/18	13.6	1.343	0.23	6.8	135.0	
01/08/18	13.8	1.385	0.74	7.3	61.1	(1)
08/01/18	13.4	1.263	0.68	6.9	162.8	(2)
03/12/19	11.3	1.137	1.20	7.2	177.5	(2)
03/12/19	10.9	1.154	2.69	7.2	106.0	(3)
09/18/19	15.3	1.203	1.72	7.4	209.2	(3)
12/13/19	14.7	1.571	1.47	7.4	205.3	(2)
08/18/21	15.4	2.922	0.24	6.7	74.5	
MW-7						
07/06/17	15.5	6.310	2.52	6.9	77.7	
08/01/18	16.8	7.926	2.23	6.9	184.1	(2)
09/18/19	17.7	7.278	8.41	7.0	242.0	(2)
12/13/19	14.3	7.201	2.83	7.0	212.7	(2)
08/18/21	18.6	6.100	1.65	6.9	23.7	

NOTES:

RNA = Remediation through natural attenuation.

Conductivity in milliSiemens per centimeter (mS/cm).

Dissolved oxygen (DO) concentration in milligrams per liter (mg/ℓ).

Oxidation reduction potential (ORP) in millivolts (mV).

Temperature in degrees Celsius (˚C).

Water quality parameter data collected using a YSI 556 multi-parameter meter prior to 09/18/19, and a Hanna HI98194 on 09/18/19 and thereafter.

FOOTNOTES:

(1) RNA parameters collected in-situ after purging and sampling.

(2) RNA parameters collected after purging and prior to sampling.

(3) RNA parameters collected after purging and sampling.

Gannett Fleming

KOELLER ONE LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 4

SUMMARY OF DETECTED PFAS COMPOUNDS IN MW-1
AUGUST 2021

Compound	CAS Number	MW-1	WI DHS Proposed PFAS Standard	
			ES (ng/ℓ)	PAL (ng/ℓ)
Perfluorooctanoic acid (PFOA)	335-67-1	5.8	**20**[(1)]	2[(1)]
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	9.7		
Perfluorononanoic acid (PFNA)	375-95-1	0.95 J	**30**	3
Perfluorobutanoic acid (PFBA)	375-22-4	5.1	**10,000**	2,000
Perfluorohexanoic acid (PFHxA)	307-24-4	2.3 J	**150,000**	30,000
Perfluorobutanesulfonic acid (PFBS)	375-73-5	3.2 J	**450,000**	90,000
Perfluoropentanoic acid (PFPeA)	2706-90-3	2.6 J	NRS	NRS
Perfluoroheptanoic acid (PFHpA)	375-85-9	2.3 J	NRS	NRS

NOTES:

The groundwater sample from MW-1 was collected on 8/18/21 and analyzed for 33 PFAS compounds using Modified 537 Method. Only compounds detected in the sample are shown in this table.
All concentrations are in nanograms per liter (ng/L).
NRS - No recommended standard

WI DHS Recommended preventive action limits (PALs) and enforcement standards (ES) taken from WDNR's March 1, 2021, PFAS update.

J - Estimated concentration between laboratory's quantitation and method detection levels.

FOOTNOTE:

(1) The proposed NR 140 PALs and ESs are for the combined concentrations of PFOA, PFOS, FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE. FOSA, NEtFOSA, NEtFOSAA, and NEtFOSE were not detected in this sample and are therefore not included in this table.

ATTACHMENT A

ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORDS FOR GROUNDWATER SAMPLES COLLECTED IN JULY 2020 AND AUGUST 2021

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

July 13, 2020

Tony Miller
Gannett Fleming
8040 Excelsior Drive, Ste 303
Madison, WI 53717

RE: Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on July 09, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,

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
(920)469-2436

CERTIFICATIONS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Pace Analytical Services Green Bay
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.: 40210819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40210819001	**MW-1**	Water	07/08/20 12:30	07/09/20 09:40
40210819002	**MW-2**	Water	07/08/20 11:30	07/09/20 09:40
40210819003	**MW-3**	Water	07/08/20 11:35	07/09/20 09:40
40210819004	**MW-4**	Water	07/08/20 11:15	07/09/20 09:40
40210819005	**MW-5**	Water	07/08/20 10:35	07/09/20 09:40
40210819006	**MW-6**	Water	07/08/20 09:50	07/09/20 09:40
40210819007	**MW-6 DUP**	Water	07/08/20 09:50	07/09/20 09:40
40210819008	**MW-7**	Water	07/08/20 09:10	07/09/20 09:40
40210819009	**TRIP BLANK**	Water	07/08/20 00:00	07/09/20 09:40

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40210819001	**MW-1**	EPA 8260	LAP	63
40210819002	**MW-2**	EPA 8260	LAP	63
40210819003	**MW-3**	EPA 8260	LAP	63
40210819004	**MW-4**	EPA 8260	LAP	63
40210819005	**MW-5**	EPA 8260	LAP	63
40210819006	**MW-6**	EPA 8260	LAP	63
40210819007	**MW-6 DUP**	EPA 8260	LAP	63
40210819008	**MW-7**	EPA 8260	LAP	63
40210819009	**TRIP BLANK**	EPA 8260	LAP	63

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40210819001	**MW-1**					
EPA 8260	Tetrachloroethene	181	ug/L	2.7	07/10/20 16:16	
40210819002	**MW-2**					
EPA 8260	Tetrachloroethene	5.6	ug/L	1.1	07/10/20 11:08	
40210819003	**MW-3**					
EPA 8260	Tetrachloroethene	63.0	ug/L	1.1	07/10/20 11:31	
EPA 8260	Trichloroethene	0.30J	ug/L	1.0	07/10/20 11:31	
40210819004	**MW-4**					
EPA 8260	Tetrachloroethene	1.3	ug/L	1.1	07/10/20 10:02	
40210819006	**MW-6**					
EPA 8260	Tetrachloroethene	5.3	ug/L	1.1	07/10/20 11:53	
40210819007	**MW-6 DUP**					
EPA 8260	Tetrachloroethene	5.2	ug/L	1.1	07/10/20 12:14	
40210819008	**MW-7**					
EPA 8260	Tetrachloroethene	0.80J	ug/L	1.1	07/10/20 10:46	

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.: 40210819

Sample: MW-1 **Lab ID: 40210819001** Collected: 07/08/20 12:30 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.67**	ug/L	2.5	0.67	2.5		07/10/20 16:16	630-20-6	
1,1,1-Trichloroethane	**<0.61**	ug/L	2.5	0.61	2.5		07/10/20 16:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.69**	ug/L	2.5	0.69	2.5		07/10/20 16:16	79-34-5	
1,1,2-Trichloroethane	**<1.4**	ug/L	12.5	1.4	2.5		07/10/20 16:16	79-00-5	
1,1-Dichloroethane	**<0.68**	ug/L	2.5	0.68	2.5		07/10/20 16:16	75-34-3	
1,1-Dichloroethene	**<0.61**	ug/L	2.5	0.61	2.5		07/10/20 16:16	75-35-4	
1,1-Dichloropropene	**<1.4**	ug/L	4.5	1.4	2.5		07/10/20 16:16	563-58-6	
1,2,3-Trichlorobenzene	**<5.5**	ug/L	18.4	5.5	2.5		07/10/20 16:16	87-61-6	
1,2,3-Trichloropropane	**<1.5**	ug/L	12.5	1.5	2.5		07/10/20 16:16	96-18-4	
1,2,4-Trichlorobenzene	**<2.4**	ug/L	12.5	2.4	2.5		07/10/20 16:16	120-82-1	
1,2,4-Trimethylbenzene	**<2.1**	ug/L	7.0	2.1	2.5		07/10/20 16:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<4.4**	ug/L	14.7	4.4	2.5		07/10/20 16:16	96-12-8	
1,2-Dibromoethane (EDB)	**<2.1**	ug/L	6.9	2.1	2.5		07/10/20 16:16	106-93-4	
1,2-Dichlorobenzene	**<1.8**	ug/L	5.9	1.8	2.5		07/10/20 16:16	95-50-1	
1,2-Dichloroethane	**<0.70**	ug/L	2.5	0.70	2.5		07/10/20 16:16	107-06-2	
1,2-Dichloropropane	**<0.71**	ug/L	2.5	0.71	2.5		07/10/20 16:16	78-87-5	
1,3,5-Trimethylbenzene	**<2.2**	ug/L	7.3	2.2	2.5		07/10/20 16:16	108-67-8	
1,3-Dichlorobenzene	**<1.6**	ug/L	5.2	1.6	2.5		07/10/20 16:16	541-73-1	
1,3-Dichloropropane	**<2.1**	ug/L	6.9	2.1	2.5		07/10/20 16:16	142-28-9	
1,4-Dichlorobenzene	**<2.4**	ug/L	7.9	2.4	2.5		07/10/20 16:16	106-46-7	
2,2-Dichloropropane	**<5.7**	ug/L	18.9	5.7	2.5		07/10/20 16:16	594-20-7	
2-Chlorotoluene	**<2.3**	ug/L	12.5	2.3	2.5		07/10/20 16:16	95-49-8	
4-Chlorotoluene	**<1.9**	ug/L	6.3	1.9	2.5		07/10/20 16:16	106-43-4	
Benzene	**<0.62**	ug/L	2.5	0.62	2.5		07/10/20 16:16	71-43-2	
Bromobenzene	**<0.60**	ug/L	2.5	0.60	2.5		07/10/20 16:16	108-86-1	
Bromochloromethane	**<0.91**	ug/L	12.5	0.91	2.5		07/10/20 16:16	74-97-5	
Bromodichloromethane	**<0.91**	ug/L	3.0	0.91	2.5		07/10/20 16:16	75-27-4	
Bromoform	**<9.9**	ug/L	33.1	9.9	2.5		07/10/20 16:16	75-25-2	
Bromomethane	**<2.4**	ug/L	12.5	2.4	2.5		07/10/20 16:16	74-83-9	
Carbon tetrachloride	**<2.7**	ug/L	9.0	2.7	2.5		07/10/20 16:16	56-23-5	
Chlorobenzene	**<1.8**	ug/L	5.9	1.8	2.5		07/10/20 16:16	108-90-7	
Chloroethane	**<3.4**	ug/L	12.5	3.4	2.5		07/10/20 16:16	75-00-3	
Chloroform	**<3.2**	ug/L	12.5	3.2	2.5		07/10/20 16:16	67-66-3	
Chloromethane	**<5.5**	ug/L	18.2	5.5	2.5		07/10/20 16:16	74-87-3	
Dibromochloromethane	**<6.5**	ug/L	21.7	6.5	2.5		07/10/20 16:16	124-48-1	
Dibromomethane	**<2.3**	ug/L	7.8	2.3	2.5		07/10/20 16:16	74-95-3	
Dichlorodifluoromethane	**<1.2**	ug/L	12.5	1.2	2.5		07/10/20 16:16	75-71-8	
Ethylbenzene	**<0.80**	ug/L	2.7	0.80	2.5		07/10/20 16:16	100-41-4	
Hexachloro-1,3-butadiene	**<3.7**	ug/L	12.2	3.7	2.5		07/10/20 16:16	87-68-3	
Isopropylbenzene (Cumene)	**<4.2**	ug/L	14.0	4.2	2.5		07/10/20 16:16	98-82-8	
Methyl-tert-butyl ether	**<3.1**	ug/L	10.4	3.1	2.5		07/10/20 16:16	1634-04-4	
Methylene Chloride	**<1.5**	ug/L	12.5	1.5	2.5		07/10/20 16:16	75-09-2	
Naphthalene	**<2.9**	ug/L	12.5	2.9	2.5		07/10/20 16:16	91-20-3	
Styrene	**<7.5**	ug/L	25.1	7.5	2.5		07/10/20 16:16	100-42-5	
Tetrachloroethene	**181**	ug/L	2.7	0.82	2.5		07/10/20 16:16	127-18-4	

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.: 40210819

Sample: MW-1 **Lab ID: 40210819001** Collected: 07/08/20 12:30 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.67**	ug/L	2.2	0.67	2.5		07/10/20 16:16	108-88-3	
Trichloroethene	**<0.64**	ug/L	2.5	0.64	2.5		07/10/20 16:16	79-01-6	
Trichlorofluoromethane	**<0.54**	ug/L	2.5	0.54	2.5		07/10/20 16:16	75-69-4	
Vinyl chloride	**<0.44**	ug/L	2.5	0.44	2.5		07/10/20 16:16	75-01-4	
cis-1,2-Dichloroethene	**<0.68**	ug/L	2.5	0.68	2.5		07/10/20 16:16	156-59-2	
cis-1,3-Dichloropropene	**<9.1**	ug/L	30.2	9.1	2.5		07/10/20 16:16	10061-01-5	
m&p-Xylene	**<1.2**	ug/L	5.0	1.2	2.5		07/10/20 16:16	179601-23-1	
n-Butylbenzene	**<1.8**	ug/L	5.9	1.8	2.5		07/10/20 16:16	104-51-8	
n-Propylbenzene	**<2.0**	ug/L	12.5	2.0	2.5		07/10/20 16:16	103-65-1	
o-Xylene	**<0.65**	ug/L	2.5	0.65	2.5		07/10/20 16:16	95-47-6	
p-Isopropyltoluene	**<2.0**	ug/L	6.7	2.0	2.5		07/10/20 16:16	99-87-6	
sec-Butylbenzene	**<2.1**	ug/L	12.5	2.1	2.5		07/10/20 16:16	135-98-8	
tert-Butylbenzene	**<0.76**	ug/L	2.5	0.76	2.5		07/10/20 16:16	98-06-6	
trans-1,2-Dichloroethene	**<1.2**	ug/L	3.9	1.2	2.5		07/10/20 16:16	156-60-5	
trans-1,3-Dichloropropene	**<10.9**	ug/L	36.4	10.9	2.5		07/10/20 16:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		2.5		07/10/20 16:16	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		2.5		07/10/20 16:16	1868-53-7	
Toluene-d8 (S)	98	%	70-130		2.5		07/10/20 16:16	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.: 40210819

Sample: MW-2 **Lab ID: 40210819002** Collected: 07/08/20 11:30 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:08	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:08	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:08	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 11:08	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:08	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:08	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 11:08	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 11:08	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 11:08	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 11:08	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 11:08	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 11:08	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:08	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:08	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:08	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:08	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 11:08	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 11:08	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:08	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:08	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 11:08	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 11:08	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 11:08	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 11:08	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:08	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 11:08	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 11:08	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 11:08	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 11:08	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 11:08	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:08	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:08	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:08	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 11:08	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 11:08	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:08	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 11:08	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 11:08	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 11:08	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 11:08	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 11:08	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 11:08	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 11:08	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 11:08	100-42-5	
Tetrachloroethene	**5.6**	ug/L	1.1	0.33	1		07/10/20 11:08	127-18-4	

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.: 40210819

Sample: MW-2 **Lab ID: 40210819002** Collected: 07/08/20 11:30 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 11:08	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 11:08	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 11:08	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 11:08	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:08	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 11:08	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 11:08	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:08	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 11:08	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 11:08	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 11:08	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 11:08	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 11:08	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 11:08	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 11:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		07/10/20 11:08	460-00-4	
Dibromofluoromethane (S)	84	%	70-130		1		07/10/20 11:08	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		07/10/20 11:08	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.: 40210819

Sample: MW-3 **Lab ID: 40210819003** Collected: 07/08/20 11:35 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:31	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:31	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:31	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 11:31	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:31	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:31	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 11:31	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 11:31	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 11:31	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 11:31	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 11:31	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 11:31	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:31	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:31	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:31	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:31	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 11:31	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 11:31	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:31	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:31	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 11:31	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 11:31	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 11:31	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 11:31	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:31	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 11:31	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 11:31	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 11:31	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 11:31	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 11:31	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:31	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:31	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:31	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 11:31	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 11:31	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:31	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 11:31	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 11:31	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 11:31	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 11:31	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 11:31	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 11:31	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 11:31	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 11:31	100-42-5	
Tetrachloroethene	**63.0**	ug/L	1.1	0.33	1		07/10/20 11:31	127-18-4	

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.: 40210819

Sample: MW-3 **Lab ID: 40210819003** Collected: 07/08/20 11:35 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 11:31	108-88-3	
Trichloroethene	**0.30J**	ug/L	1.0	0.26	1		07/10/20 11:31	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 11:31	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 11:31	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:31	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 11:31	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 11:31	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:31	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 11:31	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 11:31	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 11:31	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 11:31	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 11:31	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 11:31	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 11:31	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		07/10/20 11:31	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		07/10/20 11:31	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/10/20 11:31	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: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-4 **Lab ID: 40210819004** Collected: 07/08/20 11:15 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:02	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:02	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:02	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 10:02	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:02	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:02	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 10:02	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 10:02	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 10:02	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 10:02	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 10:02	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 10:02	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:02	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:02	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:02	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:02	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 10:02	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 10:02	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:02	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:02	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 10:02	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 10:02	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 10:02	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 10:02	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:02	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 10:02	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 10:02	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 10:02	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 10:02	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 10:02	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:02	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:02	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:02	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 10:02	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 10:02	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:02	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 10:02	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 10:02	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 10:02	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 10:02	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 10:02	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 10:02	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 10:02	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 10:02	100-42-5	
Tetrachloroethene	**1.3**	ug/L	1.1	0.33	1		07/10/20 10:02	127-18-4	

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-4 **Lab ID: 40210819004** Collected: 07/08/20 11:15 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 10:02	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:02	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 10:02	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 10:02	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:02	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 10:02	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 10:02	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:02	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 10:02	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:02	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 10:02	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 10:02	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 10:02	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 10:02	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 10:02	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/10/20 10:02	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		07/10/20 10:02	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		07/10/20 10:02	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: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-5 **Lab ID: 40210819005** Collected: 07/08/20 10:35 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:24	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:24	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:24	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 10:24	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:24	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:24	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 10:24	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 10:24	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 10:24	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 10:24	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 10:24	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 10:24	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:24	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:24	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:24	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:24	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 10:24	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 10:24	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:24	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:24	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 10:24	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 10:24	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 10:24	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 10:24	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:24	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 10:24	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 10:24	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 10:24	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 10:24	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 10:24	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:24	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:24	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:24	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 10:24	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 10:24	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:24	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 10:24	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 10:24	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 10:24	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 10:24	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 10:24	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 10:24	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 10:24	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 10:24	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		07/10/20 10:24	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-5 **Lab ID: 40210819005** Collected: 07/08/20 10:35 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 10:24	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:24	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 10:24	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 10:24	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:24	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 10:24	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 10:24	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:24	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 10:24	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:24	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 10:24	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 10:24	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 10:24	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 10:24	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 10:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		07/10/20 10:24	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		07/10/20 10:24	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/10/20 10:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-6 **Lab ID: 40210819006** Collected: 07/08/20 09:50 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:53	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:53	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:53	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 11:53	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:53	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:53	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 11:53	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 11:53	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 11:53	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 11:53	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 11:53	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 11:53	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:53	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:53	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:53	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 11:53	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 11:53	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 11:53	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 11:53	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:53	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 11:53	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 11:53	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 11:53	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 11:53	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 11:53	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 11:53	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 11:53	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 11:53	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 11:53	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 11:53	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:53	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:53	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 11:53	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 11:53	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 11:53	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 11:53	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 11:53	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 11:53	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 11:53	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 11:53	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 11:53	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 11:53	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 11:53	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 11:53	100-42-5	
Tetrachloroethene	**5.3**	ug/L	1.1	0.33	1		07/10/20 11:53	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-6 **Lab ID: 40210819006** Collected: 07/08/20 09:50 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 11:53	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 11:53	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 11:53	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 11:53	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 11:53	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 11:53	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 11:53	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 11:53	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 11:53	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 11:53	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 11:53	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 11:53	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 11:53	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 11:53	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 11:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/10/20 11:53	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		07/10/20 11:53	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		07/10/20 11:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Sample: MW-6 DUP **Lab ID: 40210819007** Collected: 07/08/20 09:50 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 12:14	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 12:14	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 12:14	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 12:14	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 12:14	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 12:14	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 12:14	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 12:14	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 12:14	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 12:14	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 12:14	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 12:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 12:14	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 12:14	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 12:14	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 12:14	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 12:14	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 12:14	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 12:14	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 12:14	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 12:14	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 12:14	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 12:14	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 12:14	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 12:14	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 12:14	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 12:14	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 12:14	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 12:14	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 12:14	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 12:14	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 12:14	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 12:14	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 12:14	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 12:14	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 12:14	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 12:14	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 12:14	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 12:14	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 12:14	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 12:14	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 12:14	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 12:14	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 12:14	100-42-5	
Tetrachloroethene	**5.2**	ug/L	1.1	0.33	1		07/10/20 12:14	127-18-4	

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.: 40210819

Sample: MW-6 DUP **Lab ID: 40210819007** Collected: 07/08/20 09:50 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 12:14	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 12:14	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 12:14	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 12:14	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 12:14	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 12:14	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 12:14	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 12:14	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 12:14	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 12:14	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 12:14	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 12:14	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 12:14	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 12:14	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 12:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/10/20 12:14	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		07/10/20 12:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/10/20 12:14	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.: 40210819

Sample: MW-7 **Lab ID: 40210819008** Collected: 07/08/20 09:10 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:46	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:46	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:46	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 10:46	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:46	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:46	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 10:46	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 10:46	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 10:46	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 10:46	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 10:46	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 10:46	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:46	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:46	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:46	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 10:46	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 10:46	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 10:46	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 10:46	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:46	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 10:46	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 10:46	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 10:46	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 10:46	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 10:46	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 10:46	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 10:46	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 10:46	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 10:46	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 10:46	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:46	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:46	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 10:46	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 10:46	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 10:46	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 10:46	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 10:46	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 10:46	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 10:46	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 10:46	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 10:46	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 10:46	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 10:46	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 10:46	100-42-5	
Tetrachloroethene	**0.80J**	ug/L	1.1	0.33	1		07/10/20 10:46	127-18-4	

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.: 40210819

Sample: MW-7 **Lab ID: 40210819008** Collected: 07/08/20 09:10 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 10:46	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:46	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 10:46	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 10:46	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 10:46	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 10:46	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 10:46	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 10:46	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 10:46	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 10:46	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 10:46	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 10:46	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 10:46	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 10:46	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 10:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/10/20 10:46	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		07/10/20 10:46	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		07/10/20 10:46	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.: 40210819

Sample: TRIP BLANK **Lab ID: 40210819009** Collected: 07/08/20 00:00 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 09:40	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		07/10/20 09:40	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 09:40	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		07/10/20 09:40	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		07/10/20 09:40	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 09:40	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		07/10/20 09:40	563-58-6	
1,2,3-Trichlorobenzene	**<2.2**	ug/L	7.4	2.2	1		07/10/20 09:40	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		07/10/20 09:40	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		07/10/20 09:40	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/10/20 09:40	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		07/10/20 09:40	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		07/10/20 09:40	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 09:40	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 09:40	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		07/10/20 09:40	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/10/20 09:40	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		07/10/20 09:40	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		07/10/20 09:40	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		07/10/20 09:40	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		07/10/20 09:40	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		07/10/20 09:40	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		07/10/20 09:40	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/10/20 09:40	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		07/10/20 09:40	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		07/10/20 09:40	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		07/10/20 09:40	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		07/10/20 09:40	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		07/10/20 09:40	74-83-9	
Carbon tetrachloride	**<1.1**	ug/L	3.6	1.1	1		07/10/20 09:40	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 09:40	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		07/10/20 09:40	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		07/10/20 09:40	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		07/10/20 09:40	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		07/10/20 09:40	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		07/10/20 09:40	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		07/10/20 09:40	75-71-8	
Ethylbenzene	**<0.32**	ug/L	1.1	0.32	1		07/10/20 09:40	100-41-4	
Hexachloro-1,3-butadiene	**<1.5**	ug/L	4.9	1.5	1		07/10/20 09:40	87-68-3	
Isopropylbenzene (Cumene)	**<1.7**	ug/L	5.6	1.7	1		07/10/20 09:40	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/10/20 09:40	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		07/10/20 09:40	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/10/20 09:40	91-20-3	
Styrene	**<3.0**	ug/L	10.0	3.0	1		07/10/20 09:40	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		07/10/20 09:40	127-18-4	

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.: 40210819

Sample: TRIP BLANK **Lab ID: 40210819009** Collected: 07/08/20 00:00 Received: 07/09/20 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - Green Bay								
Toluene	**<0.27**	ug/L	0.90	0.27	1		07/10/20 09:40	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 09:40	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		07/10/20 09:40	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		07/10/20 09:40	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		07/10/20 09:40	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		07/10/20 09:40	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/10/20 09:40	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		07/10/20 09:40	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		07/10/20 09:40	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/10/20 09:40	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		07/10/20 09:40	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		07/10/20 09:40	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		07/10/20 09:40	98-06-6	
trans-1,2-Dichloroethene	**<0.46**	ug/L	1.5	0.46	1		07/10/20 09:40	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		07/10/20 09:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		07/10/20 09:40	460-00-4	HS
Dibromofluoromethane (S)	88	%	70-130		1		07/10/20 09:40	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/10/20 09:40	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.: 40210819

QC Batch: 359774
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40210819001, 40210819002, 40210819003, 40210819004, 40210819005, 40210819006, 40210819007, 40210819008, 40210819009

METHOD BLANK: 2080653
Matrix: Water
Associated Lab Samples: 40210819001, 40210819002, 40210819003, 40210819004, 40210819005, 40210819006, 40210819007, 40210819008, 40210819009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	07/10/20 07:06	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	07/10/20 07:06	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	07/10/20 07:06	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	07/10/20 07:06	
1,1-Dichloroethane	ug/L	<0.27	1.0	07/10/20 07:06	
1,1-Dichloroethene	ug/L	<0.24	1.0	07/10/20 07:06	
1,1-Dichloropropene	ug/L	<0.54	1.8	07/10/20 07:06	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	07/10/20 07:06	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	07/10/20 07:06	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	07/10/20 07:06	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	07/10/20 07:06	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	07/10/20 07:06	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	07/10/20 07:06	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	07/10/20 07:06	
1,2-Dichloroethane	ug/L	<0.28	1.0	07/10/20 07:06	
1,2-Dichloropropane	ug/L	<0.28	1.0	07/10/20 07:06	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	07/10/20 07:06	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	07/10/20 07:06	
1,3-Dichloropropane	ug/L	<0.83	2.8	07/10/20 07:06	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	07/10/20 07:06	
2,2-Dichloropropane	ug/L	<2.3	7.6	07/10/20 07:06	
2-Chlorotoluene	ug/L	<0.93	5.0	07/10/20 07:06	
4-Chlorotoluene	ug/L	<0.76	2.5	07/10/20 07:06	
Benzene	ug/L	<0.25	1.0	07/10/20 07:06	
Bromobenzene	ug/L	<0.24	1.0	07/10/20 07:06	
Bromochloromethane	ug/L	<0.36	5.0	07/10/20 07:06	
Bromodichloromethane	ug/L	<0.36	1.2	07/10/20 07:06	
Bromoform	ug/L	<4.0	13.2	07/10/20 07:06	
Bromomethane	ug/L	<0.97	5.0	07/10/20 07:06	
Carbon tetrachloride	ug/L	<1.1	3.6	07/10/20 07:06	
Chlorobenzene	ug/L	<0.71	2.4	07/10/20 07:06	
Chloroethane	ug/L	<1.3	5.0	07/10/20 07:06	
Chloroform	ug/L	<1.3	5.0	07/10/20 07:06	
Chloromethane	ug/L	<2.2	7.3	07/10/20 07:06	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	07/10/20 07:06	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	07/10/20 07:06	
Dibromochloromethane	ug/L	<2.6	8.7	07/10/20 07:06	
Dibromomethane	ug/L	<0.94	3.1	07/10/20 07:06	
Dichlorodifluoromethane	ug/L	<0.50	5.0	07/10/20 07:06	

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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.: 40210819

METHOD BLANK: 2080653 Matrix: Water

Associated Lab Samples: 40210819001, 40210819002, 40210819003, 40210819004, 40210819005, 40210819006, 40210819007, 40210819008, 40210819009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	07/10/20 07:06	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	07/10/20 07:06	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	07/10/20 07:06	
m&p-Xylene	ug/L	<0.47	2.0	07/10/20 07:06	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	07/10/20 07:06	
Methylene Chloride	ug/L	<0.58	5.0	07/10/20 07:06	
n-Butylbenzene	ug/L	<0.71	2.4	07/10/20 07:06	
n-Propylbenzene	ug/L	<0.81	5.0	07/10/20 07:06	
Naphthalene	ug/L	<1.2	5.0	07/10/20 07:06	
o-Xylene	ug/L	<0.26	1.0	07/10/20 07:06	
p-Isopropyltoluene	ug/L	<0.80	2.7	07/10/20 07:06	
sec-Butylbenzene	ug/L	<0.85	5.0	07/10/20 07:06	
Styrene	ug/L	<3.0	10.0	07/10/20 07:06	
tert-Butylbenzene	ug/L	<0.30	1.0	07/10/20 07:06	
Tetrachloroethene	ug/L	<0.33	1.1	07/10/20 07:06	
Toluene	ug/L	<0.27	0.90	07/10/20 07:06	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	07/10/20 07:06	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	07/10/20 07:06	
Trichloroethene	ug/L	<0.26	1.0	07/10/20 07:06	
Trichlorofluoromethane	ug/L	<0.21	1.0	07/10/20 07:06	
Vinyl chloride	ug/L	<0.17	1.0	07/10/20 07:06	
4-Bromofluorobenzene (S)	%	90	70-130	07/10/20 07:06	
Dibromofluoromethane (S)	%	92	70-130	07/10/20 07:06	
Toluene-d8 (S)	%	97	70-130	07/10/20 07:06	

LABORATORY CONTROL SAMPLE: 2080654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.5	89	64-131	
1,1,2-Trichloroethane	ug/L	50	48.7	97	70-130	
1,1-Dichloroethane	ug/L	50	44.4	89	69-163	
1,1-Dichloroethene	ug/L	50	49.7	99	77-123	
1,2,4-Trichlorobenzene	ug/L	50	48.6	97	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.7	85	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane	ug/L	50	40.5	81	78-142	
1,2-Dichloropropane	ug/L	50	45.2	90	86-134	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.9	104	70-130	
Benzene	ug/L	50	45.7	91	70-130	
Bromodichloromethane	ug/L	50	46.5	93	70-130	

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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.: 40210819

LABORATORY CONTROL SAMPLE: 2080654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	46.7	93	70-130	
Bromomethane	ug/L	50	35.6	71	39-129	
Carbon tetrachloride	ug/L	50	46.2	92	70-132	
Chlorobenzene	ug/L	50	53.2	106	70-130	
Chloroethane	ug/L	50	43.9	88	66-140	
Chloroform	ug/L	50	48.8	98	75-132	
Chloromethane	ug/L	50	36.9	74	32-143	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	45.9	92	70-130	
Dichlorodifluoromethane	ug/L	50	46.1	92	10-141	
Ethylbenzene	ug/L	50	51.7	103	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	40.2	80	61-129	
Methylene Chloride	ug/L	50	45.4	91	70-130	
o-Xylene	ug/L	50	51.7	103	70-130	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	51.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	69-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	51.9	104	75-145	
Vinyl chloride	ug/L	50	48.9	98	51-140	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2081562 2081563

Parameter	Units	40210819002 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	51.4	52.0	103	104	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.2	52.5	108	105	64-137	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.1	51.7	102	103	70-137	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	45.0	45.0	90	90	69-163	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	49.2	50.1	98	100	77-129	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.5	49.9	97	100	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	44.3	43.9	89	88	60-130	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.1	52.0	104	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.5	52.3	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	42.7	43.0	85	86	78-145	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	46.3	46.8	93	94	86-135	1	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.: 40210819

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2081562 2081563

Parameter	Units	40210819002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.5	52.3	105	105	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.8	53.0	108	106	70-130	1	20	
Benzene	ug/L	<0.25	50	50	46.2	47.1	92	94	70-136	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	47.2	47.4	94	95	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	50.4	50.6	101	101	69-130	0	20	
Bromomethane	ug/L	<0.97	50	50	38.0	38.1	76	76	39-138	0	20	
Carbon tetrachloride	ug/L	<1.1	50	50	47.0	46.4	94	93	70-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	54.0	55.8	108	112	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	46.5	46.6	93	93	61-149	0	20	
Chloroform	ug/L	<1.3	50	50	54.9	48.6	110	97	75-133	12	20	
Chloromethane	ug/L	<2.2	50	50	37.5	37.1	75	74	32-143	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.3	50.2	99	100	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	47.1	47.3	94	95	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.3	48.4	97	97	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	45.4	44.8	91	90	10-141	1	20	
Ethylbenzene	ug/L	<0.32	50	50	52.6	53.5	105	107	80-120	2	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	54.7	55.1	109	110	70-130	1	20	
m&p-Xylene	ug/L	<0.47	100	100	110	110	110	110	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.1	41.6	82	83	61-136	1	20	
Methylene Chloride	ug/L	<0.58	50	50	46.7	46.5	93	93	68-137	0	20	
o-Xylene	ug/L	<0.26	50	50	53.9	54.2	108	108	70-130	0	20	
Styrene	ug/L	<3.0	50	50	53.2	53.7	106	107	70-130	1	20	
Tetrachloroethene	ug/L	5.6	50	50	56.9	57.6	103	104	70-130	1	20	
Toluene	ug/L	<0.27	50	50	52.9	52.8	106	106	80-120	0	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	51.8	51.9	104	104	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.5	45.4	91	91	69-130	0	20	
Trichloroethene	ug/L	<0.26	50	50	51.1	51.3	102	103	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.9	53.5	106	107	74-157	1	20	
Vinyl chloride	ug/L	<0.17	50	50	48.1	48.4	96	97	51-140	0	20	
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						93	94	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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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.: 40210819

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.

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 47358.003 KOELLER ONE
Pace Project No.: 40210819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40210819001	**MW-1**	EPA 8260	359774		
40210819002	**MW-2**	EPA 8260	359774		
40210819003	**MW-3**	EPA 8260	359774		
40210819004	**MW-4**	EPA 8260	359774		
40210819005	**MW-5**	EPA 8260	359774		
40210819006	**MW-6**	EPA 8260	359774		
40210819007	**MW-6 DUP**	EPA 8260	359774		
40210819008	**MW-7**	EPA 8260	359774		
40210819009	**TRIP BLANK**	EPA 8260	359774		

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

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40210819

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:	608-327-5050
Project Number:	47358.003
Project Name:	Koeller One
Project State:	WI
Sampled By (Print):	Chelsea Payne
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Anthony Miller
Mail To Company:	Gannett Fleming
Mail To Address:	8040 Excelsior Dr, Ste 303 Madison, WI 53717
Invoice To Contact:	
Invoice To Company:	See Mail To
Invoice To Address:	
Invoice To Phone:	608-327-5050

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION 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	7/8/20	12:30	GW		B	3			
002	MW-2	"	11:30	"		"	"			
003	MW-3	"	11:35	"		"	"			
004	MW-4	"	11:15	"		"	"			
005	MW-5	"	10:35	"		"	"			
006	MW-6	"	9:50	"		"	"			
007	MW-6 dup	"	"	"		"	"			
008	MW-7	"	9:10	"		"	"			
009	Trip Blank	"		"		"	2			

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:
Chelsea Payne	7/8/20 13:30		
FedEx	7/9/20 0940		7/9/2020 0940

PACE Project No.: 40210819

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal ~~Present~~ / Not Present ~~Intact~~ / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Gannett Fleming Project # 40210819

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Initial when completed: Date/ Time:

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

Pace Lab #	Glass								Plastic					Vials						Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN							
001																	W															2.5 / 5 / 10
002																	W															2.5 / 5 / 10
003																	W															2.5 / 5 / 10
004																	W															2.5 / 5 / 10
005																	W															2.5 / 5 / 10
006																	W															2.5 / 5 / 10
007																	W															2.5 / 5 / 10
008																	W															2.5 / 5 / 10
009																	2										2						2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	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
BG1U	1 liter clear 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
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear 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
JG9U	9 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	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40210819

Client Name: Gannett Fleming

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

Tracking #: 8032 6294 0323

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: 2.0 /Corr:

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

Person examining contents:
Date: 7/9/20 Initials: EMW

Labeled By Initials: MP

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

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:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 441		

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

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

The laboratory report and QA/QC data were reviewed and approved by AWM on 08/31/21

31-Aug-2021

Anthony Miller
Gannett Fleming, Inc.
8040 Excelsior Drive
Suite 303
Madison, WI 53717-1338

Re: **Koeller (47358.003)** Work Order: **21081889**

Dear Anthony,

ALS Environmental received 10 samples on 20-Aug-2021 08:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 53.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Jodi Blouw

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 31-Aug-21

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Work Order: **21081889**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
21081889-01	MW-1	Water		8/18/2021 14:00	8/20/2021 08:30	☐
21081889-02	MW-2	Water		8/18/2021 12:55	8/20/2021 08:30	☐
21081889-03	MW-3	Water		8/18/2021 13:25	8/20/2021 08:30	☐
21081889-04	MW-4	Water		8/18/2021 11:40	8/20/2021 08:30	☐
21081889-05	MW-5	Water		8/18/2021 10:25	8/20/2021 08:30	☐
21081889-06	MW-6	Water		8/18/2021 12:10	8/20/2021 08:30	☐
21081889-07	MW-7	Water		8/18/2021 11:05	8/20/2021 08:30	☐
21081889-08	MW-1 DUP	Water		8/18/2021 14:05	8/20/2021 08:30	☐
21081889-09	Field Blank	Water		8/18/2021	8/20/2021 08:30	☐
21081889-10	Trip Blank	Water		8/18/2021	8/20/2021 08:30	☐

ALS Group, USA

Date: 31-Aug-21

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
WorkOrder: **21081889**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter
ng/L	Nanograms per Liter

ALS Group, USA

Date: 31-Aug-21

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Work Order: 21081889

Case Narrative

Samples for the above noted Work Order were received on 08/20/2021. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
No deviations or anomalies were noted.

Extractable Organics:

Batch 182387, Method E537 Mod, Sample LCS-182387: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: FtS 10:2
No other deviations or anomalies were noted.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1
Collection Date: 8/18/2021 02:00 PM

Work Order: 21081889
Lab ID: 21081889-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PFAS BY EPA 537 MODIFIED		Method: **E537 MOD**			Prep: E537 Mod / 8/23/21		Analyst: **AK**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.93	4.9	ng/L	1	8/23/2021 20:54
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		0.66	4.9	ng/L	1	8/23/2021 20:54
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.1	4.9	ng/L	1	8/23/2021 20:54
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		0.89	4.9	ng/L	1	8/23/2021 20:54
Perfluorobutanesulfonic Acid (PFBS)	**3.2**	J	**0.35**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorobutanoic Acid (PFBA)	**5.1**		**2.6**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	4.9	ng/L	1	8/23/2021 20:54
Perfluorodecanoic Acid (PFDA)	U		1.2	4.9	ng/L	1	8/23/2021 20:54
Perfluorododecanesulfonic Acid (PFDoS)	U		1.4	4.9	ng/L	1	8/23/2021 20:54
Perfluorododecanoic Acid (PFDoA)	U		1.4	4.9	ng/L	1	8/23/2021 20:54
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.56	4.9	ng/L	1	8/23/2021 20:54
Perfluoroheptanoic Acid (PFHpA)	**2.3**	J	**0.43**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorohexadecanoic Acid (PFHxDA)	U		0.38	4.9	ng/L	1	8/23/2021 20:54
Perfluorohexanesulfonic Acid (PFHxS)	U		0.36	4.9	ng/L	1	8/23/2021 20:54
Perfluorohexanoic Acid (PFHxA)	**2.3**	J	**1.2**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorononanesulfonic Acid (PFNS)	U		0.49	4.9	ng/L	1	8/23/2021 20:54
Perfluorononanoic Acid (PFNA)	**0.95**	J	**0.86**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorooctadecanoic Acid (PFODA)	U		0.64	4.9	ng/L	1	8/23/2021 20:54
Perfluorooctanesulfonamide (PFOSA)	U		0.70	4.9	ng/L	1	8/23/2021 20:54
Perfluorooctanesulfonic Acid (PFOS)	**9.7**		**0.88**	**2.0**	**ng/L**	1	8/23/2021 20:54
Perfluorooctanoic Acid (PFOA)	**5.8**		**0.62**	**2.0**	**ng/L**	1	8/23/2021 20:54
Perfluoropentanesulfonic Acid (PFPeS)	U		0.55	4.9	ng/L	1	8/23/2021 20:54
Perfluoropentanoic Acid (PFPeA)	**2.6**	J	**1.3**	**4.9**	**ng/L**	1	8/23/2021 20:54
Perfluorotetradecanoic Acid (PFTeA)	U		2.6	4.9	ng/L	1	8/23/2021 20:54
Perfluorotridecanoic Acid (PFTriA)	U		0.76	4.9	ng/L	1	8/23/2021 20:54
Perfluoroundecanoic Acid (PFUnA)	U		0.96	4.9	ng/L	1	8/23/2021 20:54
N-ethylperfluoro-1-octanesulfonamide	U		1.1	4.9	ng/L	1	8/23/2021 20:54
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		0.62	4.9	ng/L	1	8/23/2021 20:54
N-Ethylperfluorooctanesulfonamidoethanol	U		0.51	4.9	ng/L	1	8/23/2021 20:54
N-methylperfluoro-1-octanesulfonamide	U		0.78	4.9	ng/L	1	8/23/2021 20:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1
Collection Date: 8/18/2021 02:00 PM

Work Order: 21081889
Lab ID: 21081889-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.64	4.9	ng/L	1	8/23/2021 20:54
N-Methylperfluorooctanesulfonamidoethanol	U		0.48	4.9	ng/L	1	8/23/2021 20:54
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	4.9	ng/L	1	8/23/2021 20:54
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.56	4.9	ng/L	1	8/23/2021 20:54
11Cl-Pf3OUdS	U		0.46	4.9	ng/L	1	8/23/2021 20:54
9Cl-PF3ONS	U		0.44	4.9	ng/L	1	8/23/2021 20:54
Surr: 13C2-FtS 4:2	*120*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-FtS 6:2	*104*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-FtS 8:2	*99.0*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFDA	*86.3*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFDoA	*66.9*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFHxA	*82.3*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFHxDA	*75.3*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFTeA	*72.4*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C2-PFUnA	*85.0*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C3-HFPO-DA	*72.6*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C3-PFBS	*78.7*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C4-PFBA	*80.2*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C4-PFHpA	*70.6*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C4-PFOA	*79.8*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C4-PFOS	*83.6*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C5-PFNA	*79.1*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C5-PFPeA	*80.1*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 13C8-FOSA	*71.3*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: 18O2-PFHxS	*87.1*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d5-N-EtFOSA	*64.1*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d5-N-EtFOSAA	*94.8*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d9-N-EtFOSE	*66.7*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d3-N-MeFOSA	*67.4*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d3-N-MeFOSAA	*87.2*			*50-150*	*%REC*	1	8/23/2021 20:54
Surr: d7-N-MeFOSE	*76.6*			*50-150*	*%REC*	1	8/23/2021 20:54
1,4-DIOXANE BY SELECT ION MONITORING		Method: **SW8260B**					Analyst: **BG**
1,4-Dioxane	U		0.44	1.0	µg/L	1	8/30/2021 17:31
Surr: Toluene-d8	*99.4*			*74-124*	*%REC*	1	8/30/2021 17:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1
Collection Date: 8/18/2021 02:00 PM

Work Order: 21081889
Lab ID: 21081889-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 02:08
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 02:08
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 02:08
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 02:08
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 02:08
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 02:08
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 02:08
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 02:08
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 02:08
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 02:08
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 02:08
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 02:08
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 02:08
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 02:08
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 02:08
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 02:08
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 02:08
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 02:08
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 02:08
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 02:08
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 02:08
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 02:08
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 02:08
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 02:08
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 02:08
Acetone	U		6.2	21	µg/L	1	8/27/2021 02:08
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 02:08
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 02:08
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 02:08
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 02:08
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 02:08
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 02:08
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 02:08
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 02:08
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 02:08
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 02:08
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 02:08
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 02:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1
Collection Date: 8/18/2021 02:00 PM

Work Order: 21081889
Lab ID: 21081889-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 02:08
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 02:08
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 02:08
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 02:08
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 02:08
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 02:08
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 02:08
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 02:08
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 02:08
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 02:08
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 02:08
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 02:08
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 02:08
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 02:08
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 02:08
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 02:08
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 02:08
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 02:08
Tetrachloroethene	**120**		**2.0**	**6.6**	**µg/L**	5	8/27/2021 15:31
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 02:08
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 02:08
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 02:08
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 02:08
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 02:08
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 02:08
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 02:08
Surr: 1,2-Dichloroethane-d4	*103*			*75-120*	*%REC*	1	8/27/2021 02:08
Surr: 1,2-Dichloroethane-d4	*99.0*			*75-120*	*%REC*	5	8/27/2021 15:31
Surr: 4-Bromofluorobenzene	*95.5*			*80-110*	*%REC*	1	8/27/2021 02:08
Surr: 4-Bromofluorobenzene	*101*			*80-110*	*%REC*	5	8/27/2021 15:31
Surr: Dibromofluoromethane	*102*			*85-115*	*%REC*	1	8/27/2021 02:08
Surr: Dibromofluoromethane	*99.1*			*85-115*	*%REC*	5	8/27/2021 15:31
Surr: Toluene-d8	*104*			*85-110*	*%REC*	1	8/27/2021 02:08
Surr: Toluene-d8	*100*			*85-110*	*%REC*	5	8/27/2021 15:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-2
Collection Date: 8/18/2021 12:55 PM

Work Order: 21081889
Lab ID: 21081889-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 15:51
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 15:51
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 15:51
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 15:51
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 15:51
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 15:51
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 15:51
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 15:51
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 15:51
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 15:51
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 15:51
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 15:51
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 15:51
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 15:51
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 15:51
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 15:51
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 15:51
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 15:51
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 15:51
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 15:51
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 15:51
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 15:51
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 15:51
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 15:51
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 15:51
Acetone	U		6.2	21	µg/L	1	8/27/2021 15:51
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 15:51
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 15:51
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 15:51
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 15:51
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 15:51
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 15:51
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 15:51
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 15:51
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 15:51
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 15:51
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 15:51
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 15:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-2
Collection Date: 8/18/2021 12:55 PM

Work Order: 21081889
Lab ID: 21081889-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 15:51
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 15:51
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 15:51
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 15:51
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 15:51
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 15:51
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 15:51
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 15:51
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 15:51
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 15:51
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 15:51
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 15:51
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 15:51
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 15:51
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 15:51
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 15:51
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 15:51
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 15:51
Tetrachloroethene	**2.7**		**0.39**	**1.3**	**µg/L**	1	8/27/2021 15:51
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 15:51
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 15:51
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 15:51
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 15:51
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 15:51
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 15:51
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 15:51
Surr: 1,2-Dichloroethane-d4	*101*			*75-120*	*%REC*	1	8/27/2021 15:51
Surr: 4-Bromofluorobenzene	*100*			*80-110*	*%REC*	1	8/27/2021 15:51
Surr: Dibromofluoromethane	*104*			*85-115*	*%REC*	1	8/27/2021 15:51
Surr: Toluene-d8	*101*			*85-110*	*%REC*	1	8/27/2021 15:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-3
Collection Date: 8/18/2021 01:25 PM

Work Order: 21081889
Lab ID: 21081889-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 02:48
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 02:48
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 02:48
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 02:48
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 02:48
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 02:48
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 02:48
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 02:48
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 02:48
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 02:48
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 02:48
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 02:48
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 02:48
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 02:48
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 02:48
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 02:48
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 02:48
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 02:48
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 02:48
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 02:48
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 02:48
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 02:48
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 02:48
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 02:48
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 02:48
Acetone	U		6.2	21	µg/L	1	8/27/2021 02:48
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 02:48
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 02:48
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 02:48
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 02:48
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 02:48
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 02:48
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 02:48
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 02:48
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 02:48
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 02:48
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 02:48
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 02:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-3
Collection Date: 8/18/2021 01:25 PM

Work Order: 21081889
Lab ID: 21081889-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 02:48
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 02:48
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 02:48
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 02:48
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 02:48
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 02:48
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 02:48
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 02:48
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 02:48
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 02:48
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 02:48
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 02:48
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 02:48
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 02:48
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 02:48
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 02:48
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 02:48
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 02:48
Tetrachloroethene	**4.2**		**0.39**	**1.3**	**µg/L**	1	8/27/2021 02:48
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 02:48
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 02:48
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 02:48
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 02:48
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 02:48
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 02:48
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 02:48
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	1	8/27/2021 02:48
Surr: 4-Bromofluorobenzene	*95.0*			*80-110*	*%REC*	1	8/27/2021 02:48
Surr: Dibromofluoromethane	*103*			*85-115*	*%REC*	1	8/27/2021 02:48
Surr: Toluene-d8	*100*			*85-110*	*%REC*	1	8/27/2021 02:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-4
Collection Date: 8/18/2021 11:40 AM

Work Order: 21081889
Lab ID: 21081889-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 03:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 03:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 03:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 03:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 03:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 03:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 03:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 03:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 03:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 03:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 03:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 03:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 03:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 03:07
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 03:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 03:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 03:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 03:07
Acetone	U		6.2	21	µg/L	1	8/27/2021 03:07
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 03:07
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 03:07
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 03:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 03:07
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 03:07
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 03:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 03:07
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 03:07
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 03:07
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 03:07
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 03:07
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 03:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-4
Collection Date: 8/18/2021 11:40 AM

Work Order: 21081889
Lab ID: 21081889-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 03:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 03:07
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 03:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 03:07
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 03:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:07
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 03:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 03:07
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 03:07
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 03:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 03:07
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 03:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 03:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 03:07
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 03:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 03:07
Tetrachloroethene	**1.7**		**0.39**	**1.3**	**µg/L**	1	8/27/2021 03:07
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 03:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 03:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 03:07
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 03:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 03:07
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 03:07
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 03:07
Surr: 1,2-Dichloroethane-d4	*98.6*			*75-120*	*%REC*	1	8/27/2021 03:07
Surr: 4-Bromofluorobenzene	*99.0*			*80-110*	*%REC*	1	8/27/2021 03:07
Surr: Dibromofluoromethane	*103*			*85-115*	*%REC*	1	8/27/2021 03:07
Surr: Toluene-d8	*103*			*85-110*	*%REC*	1	8/27/2021 03:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-5
Collection Date: 8/18/2021 10:25 AM

Work Order: 21081889
Lab ID: 21081889-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 03:27
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:27
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 03:27
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:27
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 03:27
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 03:27
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 03:27
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 03:27
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:27
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:27
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:27
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 03:27
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 03:27
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 03:27
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 03:27
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 03:27
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 03:27
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 03:27
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:27
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:27
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 03:27
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 03:27
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 03:27
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 03:27
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 03:27
Acetone	U		6.2	21	µg/L	1	8/27/2021 03:27
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 03:27
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 03:27
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 03:27
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 03:27
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 03:27
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 03:27
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 03:27
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 03:27
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 03:27
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 03:27
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 03:27
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 03:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-5
Collection Date: 8/18/2021 10:25 AM

Work Order: 21081889
Lab ID: 21081889-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 03:27
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 03:27
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 03:27
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 03:27
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:27
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 03:27
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:27
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 03:27
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 03:27
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 03:27
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 03:27
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:27
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 03:27
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 03:27
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 03:27
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 03:27
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 03:27
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 03:27
Tetrachloroethene	U		0.39	1.3	µg/L	1	8/27/2021 03:27
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 03:27
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 03:27
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 03:27
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 03:27
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 03:27
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 03:27
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 03:27
Surr: 1,2-Dichloroethane-d4	*98.7*			*75-120*	*%REC*	1	8/27/2021 03:27
Surr: 4-Bromofluorobenzene	*93.2*			*80-110*	*%REC*	1	8/27/2021 03:27
Surr: Dibromofluoromethane	*98.2*			*85-115*	*%REC*	1	8/27/2021 03:27
Surr: Toluene-d8	*101*			*85-110*	*%REC*	1	8/27/2021 03:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-6
Collection Date: 8/18/2021 12:10 PM

Work Order: 21081889
Lab ID: 21081889-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 03:47
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:47
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 03:47
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 03:47
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 03:47
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 03:47
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 03:47
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 03:47
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:47
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:47
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 03:47
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 03:47
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 03:47
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 03:47
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 03:47
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 03:47
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 03:47
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 03:47
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 03:47
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:47
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 03:47
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 03:47
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 03:47
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 03:47
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 03:47
Acetone	U		6.2	21	µg/L	1	8/27/2021 03:47
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 03:47
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 03:47
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 03:47
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 03:47
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 03:47
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 03:47
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 03:47
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 03:47
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 03:47
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 03:47
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 03:47
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 03:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-6
Collection Date: 8/18/2021 12:10 PM

Work Order: 21081889
Lab ID: 21081889-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 03:47
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 03:47
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 03:47
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 03:47
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:47
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 03:47
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 03:47
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 03:47
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 03:47
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 03:47
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 03:47
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 03:47
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 03:47
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 03:47
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 03:47
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 03:47
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 03:47
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 03:47
Tetrachloroethene	**6.0**		**0.39**	**1.3**	**µg/L**	1	8/27/2021 03:47
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 03:47
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 03:47
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 03:47
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 03:47
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 03:47
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 03:47
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 03:47
Surr: 1,2-Dichloroethane-d4	*97.3*			*75-120*	*%REC*	1	8/27/2021 03:47
Surr: 4-Bromofluorobenzene	*95.7*			*80-110*	*%REC*	1	8/27/2021 03:47
Surr: Dibromofluoromethane	*101*			*85-115*	*%REC*	1	8/27/2021 03:47
Surr: Toluene-d8	*99.6*			*85-110*	*%REC*	1	8/27/2021 03:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-7
Collection Date: 8/18/2021 11:05 AM

Work Order: 21081889
Lab ID: 21081889-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 04:07
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 04:07
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 04:07
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 04:07
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 04:07
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 04:07
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 04:07
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 04:07
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 04:07
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 04:07
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 04:07
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 04:07
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 04:07
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 04:07
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 04:07
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 04:07
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 04:07
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 04:07
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 04:07
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 04:07
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 04:07
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 04:07
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 04:07
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 04:07
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 04:07
Acetone	U		6.2	21	µg/L	1	8/27/2021 04:07
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 04:07
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 04:07
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 04:07
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 04:07
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 04:07
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 04:07
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 04:07
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 04:07
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 04:07
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 04:07
Chloromethane	**0.86**	J	**0.83**	**2.8**	**µg/L**	1	8/27/2021 04:07
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 04:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-7
Collection Date: 8/18/2021 11:05 AM

Work Order: 21081889
Lab ID: 21081889-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 04:07
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 04:07
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 04:07
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 04:07
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 04:07
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 04:07
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 04:07
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 04:07
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 04:07
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 04:07
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 04:07
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 04:07
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 04:07
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 04:07
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 04:07
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 04:07
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 04:07
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 04:07
Tetrachloroethene	**0.66**	J	**0.39**	**1.3**	**µg/L**	1	8/27/2021 04:07
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 04:07
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 04:07
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 04:07
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 04:07
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 04:07
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 04:07
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 04:07
Surr: 1,2-Dichloroethane-d4	*100*			*75-120*	*%REC*	1	8/27/2021 04:07
Surr: 4-Bromofluorobenzene	*100*			*80-110*	*%REC*	1	8/27/2021 04:07
Surr: Dibromofluoromethane	*102*			*85-115*	*%REC*	1	8/27/2021 04:07
Surr: Toluene-d8	*104*			*85-110*	*%REC*	1	8/27/2021 04:07

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1 DUP
Collection Date: 8/18/2021 02:05 PM

Work Order: 21081889
Lab ID: 21081889-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 04:27
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 04:27
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 04:27
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 04:27
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 04:27
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 04:27
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 04:27
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 04:27
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 04:27
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 04:27
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 04:27
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 04:27
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 04:27
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 04:27
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 04:27
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 04:27
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 04:27
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 04:27
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 04:27
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 04:27
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 04:27
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 04:27
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 04:27
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 04:27
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 04:27
Acetone	U		6.2	21	µg/L	1	8/27/2021 04:27
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 04:27
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 04:27
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 04:27
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 04:27
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 04:27
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 04:27
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 04:27
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 04:27
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 04:27
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 04:27
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 04:27
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 04:27

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: MW-1 DUP
Collection Date: 8/18/2021 02:05 PM

Work Order: 21081889
Lab ID: 21081889-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 04:27
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 04:27
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 04:27
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 04:27
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 04:27
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 04:27
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 04:27
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 04:27
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 04:27
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 04:27
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 04:27
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 04:27
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 04:27
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 04:27
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 04:27
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 04:27
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 04:27
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 04:27
Tetrachloroethene	**120**		**2.0**	**6.6**	**µg/L**	5	8/27/2021 16:11
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 04:27
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 04:27
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 04:27
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 04:27
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 04:27
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 04:27
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 04:27
Surr: 1,2-Dichloroethane-d4	*103*			*75-120*	*%REC*	1	8/27/2021 04:27
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	5	8/27/2021 16:11
Surr: 4-Bromofluorobenzene	*97.7*			*80-110*	*%REC*	1	8/27/2021 04:27
Surr: 4-Bromofluorobenzene	*98.3*			*80-110*	*%REC*	5	8/27/2021 16:11
Surr: Dibromofluoromethane	*106*			*85-115*	*%REC*	1	8/27/2021 04:27
Surr: Dibromofluoromethane	*99.0*			*85-115*	*%REC*	5	8/27/2021 16:11
Surr: Toluene-d8	*101*			*85-110*	*%REC*	1	8/27/2021 04:27
Surr: Toluene-d8	*102*			*85-110*	*%REC*	5	8/27/2021 16:11

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: Field Blank
Collection Date: 8/18/2021

Work Order: 21081889
Lab ID: 21081889-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PFAS BY EPA 537 MODIFIED		Method: **E537 MOD**			Prep: E537 Mod / 8/23/21		Analyst: **AK**
Fluorotelomer Sulphonic Acid 4:2 (FtS 4:2)	U		0.98	5.2	ng/L	1	8/23/2021 21:05
Fluorotelomer Sulphonic Acid 6:2 (FtS 6:2)	U		0.69	5.2	ng/L	1	8/23/2021 21:05
Fluorotelomer Sulphonic Acid 8:2 (FtS 8:2)	U		1.2	5.2	ng/L	1	8/23/2021 21:05
Fluorotelomer Sulphonic Acid 10:2 (FtS 10:2)	U		0.94	5.2	ng/L	1	8/23/2021 21:05
Perfluorobutanesulfonic Acid (PFBS)	U		0.37	5.2	ng/L	1	8/23/2021 21:05
Perfluorobutanoic Acid (PFBA)	U		2.7	5.2	ng/L	1	8/23/2021 21:05
Perfluorodecanesulfonic Acid (PFDS)	U		1.4	5.2	ng/L	1	8/23/2021 21:05
Perfluorodecanoic Acid (PFDA)	U		1.3	5.2	ng/L	1	8/23/2021 21:05
Perfluorododecanesulfonic Acid (PFDoS)	U		1.5	5.2	ng/L	1	8/23/2021 21:05
Perfluorododecanoic Acid (PFDoA)	U		1.5	5.2	ng/L	1	8/23/2021 21:05
Perfluoroheptanesulfonic Acid (PFHpS)	U		0.59	5.2	ng/L	1	8/23/2021 21:05
Perfluoroheptanoic Acid (PFHpA)	U		0.46	5.2	ng/L	1	8/23/2021 21:05
Perfluorohexadecanoic Acid (PFHxDA)	U		0.40	5.2	ng/L	1	8/23/2021 21:05
Perfluorohexanesulfonic Acid (PFHxS)	U		0.38	5.2	ng/L	1	8/23/2021 21:05
Perfluorohexanoic Acid (PFHxA)	U		1.2	5.2	ng/L	1	8/23/2021 21:05
Perfluorononanesulfonic Acid (PFNS)	U		0.52	5.2	ng/L	1	8/23/2021 21:05
Perfluorononanoic Acid (PFNA)	U		0.91	5.2	ng/L	1	8/23/2021 21:05
Perfluorooctadecanoic Acid (PFODA)	U		0.68	5.2	ng/L	1	8/23/2021 21:05
Perfluorooctanesulfonamide (PFOSA)	U		0.74	5.2	ng/L	1	8/23/2021 21:05
Perfluorooctanesulfonic Acid (PFOS)	U		0.93	2.1	ng/L	1	8/23/2021 21:05
Perfluorooctanoic Acid (PFOA)	U		0.66	2.1	ng/L	1	8/23/2021 21:05
Perfluoropentanesulfonic Acid (PFPeS)	U		0.58	5.2	ng/L	1	8/23/2021 21:05
Perfluoropentanoic Acid (PFPeA)	U		1.3	5.2	ng/L	1	8/23/2021 21:05
Perfluorotetradecanoic Acid (PFTeA)	U		2.7	5.2	ng/L	1	8/23/2021 21:05
Perfluorotridecanoic Acid (PFTriA)	U		0.80	5.2	ng/L	1	8/23/2021 21:05
Perfluoroundecanoic Acid (PFUnA)	U		1.0	5.2	ng/L	1	8/23/2021 21:05
N-ethylperfluoro-1-octanesulfonamide	U		1.2	5.2	ng/L	1	8/23/2021 21:05
N-Ethylperfluorooctanesulfonamidoacetic Acid	U		0.65	5.2	ng/L	1	8/23/2021 21:05
N-Ethylperfluorooctanesulfonamidoethanol	U		0.54	5.2	ng/L	1	8/23/2021 21:05
N-methylperfluoro-1-octanesulfonamide	U		0.83	5.2	ng/L	1	8/23/2021 21:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: Field Blank
Collection Date: 8/18/2021

Work Order: 21081889
Lab ID: 21081889-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
N-Methylperfluorooctanesulfonamidoacetic Acid	U		0.67	5.2	ng/L	1	8/23/2021 21:05
N-Methylperfluorooctanesulfonamidoethanol	U		0.50	5.2	ng/L	1	8/23/2021 21:05
Hexafluoropropylene oxide dimer acid (HFPO-DA)	U		1.2	5.2	ng/L	1	8/23/2021 21:05
4,8-Dioxa-3H-perfluorononanoic Acid (DONA)	U		0.59	5.2	ng/L	1	8/23/2021 21:05
11Cl-Pf3OUdS	U		0.49	5.2	ng/L	1	8/23/2021 21:05
9Cl-PF3ONS	U		0.47	5.2	ng/L	1	8/23/2021 21:05
Surr: 13C2-FtS 4:2	*78.5*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-FtS 6:2	*89.2*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-FtS 8:2	*82.9*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFDA	*88.9*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFDoA	*79.9*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFHxA	*79.2*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFHxDA	*73.5*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFTeA	*69.2*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C2-PFUnA	*90.3*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C3-HFPO-DA	*76.5*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C3-PFBS	*77.7*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C4-PFBA	*80.4*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C4-PFHpA	*67.6*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C4-PFOA	*82.1*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C4-PFOS	*80.7*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C5-PFNA	*73.4*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C5-PFPeA	*77.4*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 13C8-FOSA	*68.5*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: 18O2-PFHxS	*80.1*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d5-N-EtFOSA	*58.6*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d5-N-EtFOSAA	*99.9*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d9-N-EtFOSE	*66.5*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d3-N-MeFOSA	*58.8*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d3-N-MeFOSAA	*88.2*			*50-150*	*%REC*	1	8/23/2021 21:05
Surr: d7-N-MeFOSE	*67.4*			*50-150*	*%REC*	1	8/23/2021 21:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *31-Aug-21*

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: Trip Blank
Collection Date: 8/18/2021

Work Order: 21081889
Lab ID: 21081889-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260C**					Analyst: **MF**
1,1,1,2-Tetrachloroethane	U		0.38	1.3	µg/L	1	8/27/2021 00:49
1,1,1-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 00:49
1,1,2,2-Tetrachloroethane	U		0.40	1.3	µg/L	1	8/27/2021 00:49
1,1,2-Trichloroethane	U		0.46	1.5	µg/L	1	8/27/2021 00:49
1,1-Dichloroethane	U		0.44	1.5	µg/L	1	8/27/2021 00:49
1,1-Dichloroethene	U		0.40	1.4	µg/L	1	8/27/2021 00:49
1,1-Dichloropropene	U		0.37	1.2	µg/L	1	8/27/2021 00:49
1,2,3-Trichlorobenzene	U		0.42	1.4	µg/L	1	8/27/2021 00:49
1,2,3-Trichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 00:49
1,2,4-Trichlorobenzene	U		0.45	1.5	µg/L	1	8/27/2021 00:49
1,2,4-Trimethylbenzene	U		0.45	1.5	µg/L	1	8/27/2021 00:49
1,2-Dibromo-3-chloropropane	U		0.43	1.4	µg/L	1	8/27/2021 00:49
1,2-Dibromoethane	U		0.41	1.4	µg/L	1	8/27/2021 00:49
1,2-Dichlorobenzene	U		0.32	1.1	µg/L	1	8/27/2021 00:49
1,2-Dichloroethane	U		0.44	1.4	µg/L	1	8/27/2021 00:49
1,2-Dichloropropane	U		0.48	1.6	µg/L	1	8/27/2021 00:49
1,3,5-Trimethylbenzene	U		0.65	2.2	µg/L	1	8/27/2021 00:49
1,3-Dichlorobenzene	U		0.33	1.1	µg/L	1	8/27/2021 00:49
1,3-Dichloropropane	U		0.40	1.3	µg/L	1	8/27/2021 00:49
1,4-Dichlorobenzene	U		0.35	1.2	µg/L	1	8/27/2021 00:49
2,2-Dichloropropane	U		0.52	1.7	µg/L	1	8/27/2021 00:49
2-Butanone	U		0.52	1.7	µg/L	1	8/27/2021 00:49
2-Chlorotoluene	U		0.36	1.2	µg/L	1	8/27/2021 00:49
4-Chlorotoluene	U		0.31	1.0	µg/L	1	8/27/2021 00:49
4-Methyl-2-pentanone	U		0.52	1.7	µg/L	1	8/27/2021 00:49
Acetone	U		6.2	21	µg/L	1	8/27/2021 00:49
Benzene	U		0.46	1.5	µg/L	1	8/27/2021 00:49
Bromobenzene	U		0.38	1.3	µg/L	1	8/27/2021 00:49
Bromochloromethane	U		0.45	1.5	µg/L	1	8/27/2021 00:49
Bromodichloromethane	U		0.49	1.6	µg/L	1	8/27/2021 00:49
Bromoform	U		0.56	1.9	µg/L	1	8/27/2021 00:49
Bromomethane	U		0.90	3.0	µg/L	1	8/27/2021 00:49
Carbon tetrachloride	U		0.40	1.4	µg/L	1	8/27/2021 00:49
Chlorobenzene	U		0.40	1.3	µg/L	1	8/27/2021 00:49
Chloroethane	U		0.68	2.3	µg/L	1	8/27/2021 00:49
Chloroform	U		0.46	1.5	µg/L	1	8/27/2021 00:49
Chloromethane	U		0.83	2.8	µg/L	1	8/27/2021 00:49
cis-1,2-Dichloroethene	U		0.42	1.4	µg/L	1	8/27/2021 00:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Gannett Fleming, Inc.
Project: Koeller (47358.003)
Sample ID: Trip Blank
Collection Date: 8/18/2021

Work Order: 21081889
Lab ID: 21081889-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		0.57	1.9	µg/L	1	8/27/2021 00:49
Dibromochloromethane	U		0.40	1.3	µg/L	1	8/27/2021 00:49
Dibromomethane	U		0.65	2.2	µg/L	1	8/27/2021 00:49
Dichlorodifluoromethane	U		0.68	2.3	µg/L	1	8/27/2021 00:49
Ethylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 00:49
Hexachlorobutadiene	U		0.56	1.9	µg/L	1	8/27/2021 00:49
Isopropylbenzene	U		0.35	1.2	µg/L	1	8/27/2021 00:49
m,p-Xylene	U		0.81	2.7	µg/L	1	8/27/2021 00:49
Methyl tert-butyl ether	U		0.45	1.5	µg/L	1	8/27/2021 00:49
Methylene chloride	U		0.86	2.9	µg/L	1	8/27/2021 00:49
Naphthalene	U		0.77	2.6	µg/L	1	8/27/2021 00:49
n-Butylbenzene	U		0.34	1.1	µg/L	1	8/27/2021 00:49
n-Propylbenzene	U		0.48	1.6	µg/L	1	8/27/2021 00:49
o-Xylene	U		0.31	1.0	µg/L	1	8/27/2021 00:49
p-Isopropyltoluene	U		0.26	0.88	µg/L	1	8/27/2021 00:49
sec-Butylbenzene	U		0.30	1.0	µg/L	1	8/27/2021 00:49
Styrene	U		0.33	1.1	µg/L	1	8/27/2021 00:49
tert-Butylbenzene	U		0.39	1.3	µg/L	1	8/27/2021 00:49
Tetrachloroethene	U		0.39	1.3	µg/L	1	8/27/2021 00:49
Toluene	U		0.45	1.5	µg/L	1	8/27/2021 00:49
trans-1,2-Dichloroethene	U		0.48	1.6	µg/L	1	8/27/2021 00:49
trans-1,3-Dichloropropene	U		0.38	2.7	µg/L	1	8/27/2021 00:49
Trichloroethene	U		0.43	1.4	µg/L	1	8/27/2021 00:49
Trichlorofluoromethane	U		0.52	1.7	µg/L	1	8/27/2021 00:49
Vinyl chloride	U		0.53	1.8	µg/L	1	8/27/2021 00:49
Xylenes, Total	U		0.81	4.4	µg/L	1	8/27/2021 00:49
Surr: 1,2-Dichloroethane-d4	*99.2*			*75-120*	*%REC*	1	8/27/2021 00:49
Surr: 4-Bromofluorobenzene	*93.8*			*80-110*	*%REC*	1	8/27/2021 00:49
Surr: Dibromofluoromethane	*98.4*			*85-115*	*%REC*	1	8/27/2021 00:49
Surr: Toluene-d8	*102*			*85-110*	*%REC*	1	8/27/2021 00:49

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

MBLK Sample ID: **MBLK-182387-182387** Units: **ng/L** Analysis Date: **8/23/2021 06:07 PM**

Client ID: Run ID: **LCMS1_210823B** SeqNo: **7690005** Prep Date: **8/23/2021** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid	U	0.94	5.0								
Fluorotelomer Sulphonic Acid	U	0.66	5.0								
Fluorotelomer Sulphonic Acid	U	1.1	5.0								
Fluorotelomer Sulphonic Acid	U	0.9	5.0								
Perfluorobutanesulfonic Acid (	U	0.35	5.0								
Perfluorobutanoic Acid (PFBA)	U	2.6	5.0								
Perfluorodecanesulfonic Acid (	U	1.4	5.0								
Perfluorodecanoic Acid (PFDA	U	1.2	5.0								
Perfluorododecanesulfonic Aci	U	1.4	5.0								
Perfluorododecanoic Acid (PFI	U	1.4	5.0								
Perfluoroheptanesulfonic Acid	U	0.57	5.0								
Perfluoroheptanoic Acid (PFH	U	0.44	5.0								
Perfluorohexadecanoic Acid (F	U	0.38	5.0								
Perfluorohexanesulfonic Acid (	U	0.37	5.0								
Perfluorohexanoic Acid (PFHx	U	1.2	5.0								
Perfluorononanesulfonic Acid	U	0.5	5.0								
Perfluorononanoic Acid (PFNA	U	0.87	5.0								
Perfluorooctadecanoic Acid (P	U	0.65	5.0								
Perfluorooctanesulfonamide (F	U	0.71	5.0								
Perfluorooctanesulfonic Acid (	U	0.89	2.0								
Perfluorooctanoic Acid (PFOA)	U	0.63	2.0								
Perfluoropentanesulfonic Acid	U	0.56	5.0								
Perfluoropentanoic Acid (PFPe	U	1.3	5.0								
Perfluorotetradecanoic Acid (F	U	2.6	5.0								
Perfluorotridecanoic Acid (PFT	U	0.77	5.0								
Perfluoroundecanoic Acid (PFI	U	0.97	5.0								
N-ethylperfluoro-1-octanesulfo	U	1.2	5.0								
N-Ethylperfluorooctanesulfona	U	0.63	5.0								
N-Ethylperfluorooctanesulfona	U	0.52	5.0								
N-methylperfluoro-1-octanesul	U	0.79	5.0								
N-Methylperfluorooctanesulfor	U	0.64	5.0								
N-Methylperfluorooctanesulfor	U	0.48	5.0								
Hexafluoropropylene oxide din	U	1.2	5.0								
4,8-Dioxa-3H-perfluorononano	U	0.56	5.0								
11Cl-Pf3OUdS	U	0.47	5.0								
9Cl-PF3ONS	U	0.45	5.0								
Surr: 13C2-FtS 4:2	*114.4*	0	0	*149.4*	0	*76.6*	*50-150*	0			
Surr: 13C2-FtS 6:2	*166.4*	0	0	*152*	0	*109*	*50-150*	0			
Surr: 13C2-FtS 8:2	*135.8*	0	0	*153.3*	0	*88.6*	*50-150*	0			
Surr: 13C2-PFDA	*124.8*	0	0	*160*	0	*78*	*50-150*	0			
Surr: 13C2-PFDoA	*173.9*	0	0	*160*	0	*109*	*50-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFHxA	*124.5*	0	0	*160*	0	*77.8*	*50-150*	0
Surr: 13C2-PFHxDA	*159.9*	0	0	*160*	0	*99.9*	*50-150*	0
Surr: 13C2-PFTeA	*140.3*	0	0	*160*	0	*87.7*	*50-150*	0
Surr: 13C2-PFUnA	*156.6*	0	0	*160*	0	*97.8*	*50-150*	0
Surr: 13C3-HFPO-DA	*139.2*	0	0	*160*	0	*87*	*50-150*	0
Surr: 13C3-PFBS	*130.5*	0	0	*148.8*	0	*87.7*	*50-150*	0
Surr: 13C4-PFBA	*123.5*	0	0	*160*	0	*77.2*	*50-150*	0
Surr: 13C4-PFHpA	*128*	0	0	*160*	0	*80*	*50-150*	0
Surr: 13C4-PFOA	*143.4*	0	0	*160*	0	*89.6*	*50-150*	0
Surr: 13C4-PFOS	*117.6*	0	0	*152.8*	0	*76.9*	*50-150*	0
Surr: 13C5-PFNA	*130.5*	0	0	*160*	0	*81.6*	*50-150*	0
Surr: 13C5-PFPeA	*136.6*	0	0	*160*	0	*85.4*	*50-150*	0
Surr: 13C8-FOSA	*142.8*	0	0	*160*	0	*89.2*	*50-150*	0
Surr: 18O2-PFHxS	*138.7*	0	0	*151.2*	0	*91.8*	*50-150*	0
Surr: d5-N-EtFOSA	*98.59*	0	0	*160*	0	*61.6*	*50-150*	0
Surr: d5-N-EtFOSAA	*179.2*	0	0	*160*	0	*112*	*50-150*	0
Surr: d9-N-EtFOSE	*125.8*	0	0	*160*	0	*78.6*	*50-150*	0
Surr: d3-N-MeFOSA	*102.6*	0	0	*160*	0	*64.2*	*50-150*	0
Surr: d3-N-MeFOSAA	*143.1*	0	0	*160*	0	*89.4*	*50-150*	0
Surr: d7-N-MeFOSE	*136.5*	0	0	*160*	0	*85.3*	*50-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

LCS Sample ID: **LCS-182387-182387** Units: **ng/L** Analysis Date: **8/23/2021 06:17 PM**
Client ID: Run ID: **LCMS1_210823B** SeqNo: **7690006** Prep Date: **8/23/2021** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid	36.14	0.94	5.0	29.9	0	121	63-143	0			
Fluorotelomer Sulphonic Acid	33.53	0.66	5.0	30.3	0	111	64-140	0			
Fluorotelomer Sulphonic Acid	35.03	1.1	5.0	30.7	0	114	67-138	0			
Fluorotelomer Sulphonic Acid	52.6	0.9	5.0	30.8	0	171	40-160	0			S
Perfluorobutanesulfonic Acid (	30.09	0.35	5.0	28.3	0	106	72-130	0			
Perfluorobutanoic Acid (PFBA)	33.92	2.6	5.0	32	0	106	73-129	0			
Perfluorodecanesulfonic Acid (	36.78	1.4	5.0	30.8	0	119	53-142	0			
Perfluorodecanoic Acid (PFDA	32.33	1.2	5.0	32	0	101	71-129	0			
Perfluorododecanesulfonic Aci	32.51	1.4	5.0	31	0	105	69-134	0			
Perfluorododecanoic Acid (PFI	32.49	1.4	5.0	32	0	102	72-134	0			
Perfluoroheptanesulfonic Acid	31.57	0.57	5.0	30.5	0	104	69-134	0			
Perfluoroheptanoic Acid (PFH	33.67	0.44	5.0	32	0	105	72-130	0			
Perfluorohexadecanoic Acid (F	34.06	0.38	5.0	32	0	106	70-130	0			
Perfluorohexanesulfonic Acid (	30.71	0.37	5.0	29.1	0	106	68-131	0			
Perfluorohexanoic Acid (PFHx	34.33	1.2	5.0	32	0	107	72-129	0			
Perfluorononanesulfonic Acid	32.9	0.5	5.0	30.7	0	107	69-127	0			
Perfluorononanoic Acid (PFNA	30.65	0.87	5.0	32	0	95.8	69-130	0			
Perfluorooctadecanoic Acid (P	31.67	0.65	5.0	32	0	99	70-130	0			
Perfluorooctanesulfonamide (F	34.8	0.71	5.0	32	0	109	67-137	0			
Perfluorooctanesulfonic Acid (	30.59	0.89	2.0	29.7	0	103	65-140	0			
Perfluorooctanoic Acid (PFOA)	27.49	0.63	2.0	32	0	85.9	71-133	0			
Perfluoropentanesulfonic Acid	30.1	0.56	5.0	30	0	100	71-127	0			
Perfluoropentanoic Acid (PFPe	33.4	1.3	5.0	32	0	104	72-129	0			
Perfluorotetradecanoic Acid (F	30.2	2.6	5.0	32	0	94.4	71-132	0			
Perfluorotridecanoic Acid (PFT	36.44	0.77	5.0	32	0	114	65-144	0			
Perfluoroundecanoic Acid (PFI	35.43	0.97	5.0	32	0	111	69-133	0			
N-ethylperfluoro-1-octanesulfo	28.88	1.2	5.0	32	0	90.2	70-130	0			
N-Ethylperfluorooctanesulfona	29.85	0.63	5.0	32	0	93.3	61-135	0			
N-Ethylperfluorooctanesulfona	33.06	0.52	5.0	32	0	103	70-130	0			
N-methylperfluoro-1-octanesul	34.44	0.79	5.0	32	0	108	70-130	0			
N-Methylperfluorooctanesulfor	32.68	0.64	5.0	32	0	102	65-136	0			
N-Methylperfluorooctanesulfor	33.32	0.48	5.0	32	0	104	68-141	0			
Hexafluoropropylene oxide din	38.07	1.2	5.0	32	0	119	70-130	0			
4,8-Dioxa-3H-perfluorononano	30.58	0.56	5.0	30.1	0	102	70-130	0			
11Cl-Pf3OUdS	31.09	0.47	5.0	30.1	0	103	70-130	0			
9Cl-PF3ONS	27.49	0.45	5.0	29.8	0	92.3	70-130	0			
Surr: 13C2-FtS 4:2	*100.9*	0	0	*149.4*	0	*67.6*	*50-150*	0			
Surr: 13C2-FtS 6:2	*139.8*	0	0	*152*	0	*92*	*50-150*	0			
Surr: 13C2-FtS 8:2	*130.2*	0	0	*153.3*	0	*85*	*50-150*	0			
Surr: 13C2-PFDA	*125*	0	0	*160*	0	*78.1*	*50-150*	0			
Surr: 13C2-PFDoA	*154.4*	0	0	*160*	0	*96.5*	*50-150*	0			
Surr: 13C2-PFHxA	*113.6*	0	0	*160*	0	*71*	*50-150*	0			
Surr: 13C2-PFHxDA	*131.4*	0	0	*160*	0	*82.1*	*50-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387**	Instrument ID **LCMS1**			Method: **E537 Mod**				
Surr: 13C2-PFTeA	*123.4*	0	0	*160*	0	*77.1*	*50-150*	0
Surr: 13C2-PFUnA	*140.1*	0	0	*160*	0	*87.6*	*50-150*	0
Surr: 13C3-HFPO-DA	*110.8*	0	0	*160*	0	*69.3*	*50-150*	0
Surr: 13C3-PFBS	*107.4*	0	0	*148.8*	0	*72.2*	*50-150*	0
Surr: 13C4-PFBA	*113.1*	0	0	*160*	0	*70.7*	*50-150*	0
Surr: 13C4-PFHpA	*127.8*	0	0	*160*	0	*79.8*	*50-150*	0
Surr: 13C4-PFOA	*129.6*	0	0	*160*	0	*81*	*50-150*	0
Surr: 13C4-PFOS	*113.9*	0	0	*152.8*	0	*74.6*	*50-150*	0
Surr: 13C5-PFNA	*121.4*	0	0	*160*	0	*75.9*	*50-150*	0
Surr: 13C5-PFPeA	*111.3*	0	0	*160*	0	*69.5*	*50-150*	0
Surr: 13C8-FOSA	*105.8*	0	0	*160*	0	*66.1*	*50-150*	0
Surr: 18O2-PFHxS	*118.1*	0	0	*151.2*	0	*78.1*	*50-150*	0
Surr: d5-N-EtFOSA	*87.08*	0	0	*160*	0	*54.4*	*50-150*	0
Surr: d5-N-EtFOSAA	*168.3*	0	0	*160*	0	*105*	*50-150*	0
Surr: d9-N-EtFOSE	*113.7*	0	0	*160*	0	*71.1*	*50-150*	0
Surr: d3-N-MeFOSA	*82.78*	0	0	*160*	0	*51.7*	*50-150*	0
Surr: d3-N-MeFOSAA	*132.1*	0	0	*160*	0	*82.5*	*50-150*	0
Surr: d7-N-MeFOSE	*128.5*	0	0	*160*	0	*80.3*	*50-150*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

MS Sample ID: **21081457-01BMS** Units: **ng/L** Analysis Date: **8/23/2021 06:28 PM**
Client ID: Run ID: **LCMS1_210823B** SeqNo: **7690007** Prep Date: **8/23/2021** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid	30.52	0.89	4.7	28.31	0	108	63-143	0			
Fluorotelomer Sulphonic Acid	30.45	0.63	4.7	28.69	0	106	64-140	0			
Fluorotelomer Sulphonic Acid	27.57	1.1	4.7	29.07	0	94.8	67-138	0			
Fluorotelomer Sulphonic Acid	27.08	0.86	4.7	29.17	0	92.8	40-160	0			
Perfluorobutanesulfonic Acid (	33.65	0.33	4.7	26.8	7.517	97.5	72-130	0			
Perfluorobutanoic Acid (PFBA)	19.9	2.5	4.7	30.3	0	65.7	73-129	0			S
Perfluorodecanesulfonic Acid (	27.6	1.3	4.7	29.17	0	94.6	53-142	0			
Perfluorodecanoic Acid (PFDA	31.5	1.2	4.7	30.3	1.445	99.2	71-129	0			
Perfluorododecanesulfonic Aci	28.69	1.4	4.7	29.36	0	97.7	69-134	0			
Perfluorododecanoic Acid (PFI	29.31	1.4	4.7	30.3	0	96.7	72-134	0			
Perfluoroheptanesulfonic Acid	27.94	0.54	4.7	28.88	0	96.7	69-134	0			
Perfluoroheptanoic Acid (PFH	32.21	0.42	4.7	30.3	3.385	95.1	72-130	0			
Perfluorohexadecanoic Acid (F	31.02	0.36	4.7	30.3	0	102	70-130	0			
Perfluorohexanesulfonic Acid (	29.28	0.35	4.7	27.56	1.768	99.9	68-131	0			
Perfluorohexanoic Acid (PFHx	32.03	1.1	4.7	30.3	3.287	94.9	72-129	0			
Perfluorononanesulfonic Acid	28.96	0.47	4.7	29.07	0	99.6	69-127	0			
Perfluorononanoic Acid (PFNA	30.5	0.82	4.7	30.3	1.733	94.9	69-130	0			
Perfluorooctadecanoic Acid (P	29.2	0.61	4.7	30.3	0	96.4	70-130	0			
Perfluorooctanesulfonamide (F	34.64	0.67	4.7	30.3	0	114	67-137	0			
Perfluorooctanesulfonic Acid (	71.65	0.84	1.9	28.12	44.61	96.1	65-140	0			
Perfluorooctanoic Acid (PFOA)	29.58	0.6	1.9	30.3	4.586	82.5	71-133	0			
Perfluoropentanesulfonic Acid	24.97	0.53	4.7	28.41	1.38	83	71-127	0			
Perfluoropentanoic Acid (PFPe	28.95	1.2	4.7	30.3	2.572	87.1	72-129	0			
Perfluorotetradecanoic Acid (F	28.02	2.5	4.7	30.3	0	92.5	71-132	0			
Perfluorotridecanoic Acid (PFT	35.41	0.73	4.7	30.3	0	117	65-144	0			
Perfluoroundecanoic Acid (PFI	32.56	0.92	4.7	30.3	0	107	69-133	0			
N-ethylperfluoro-1-octanesulfo	28.85	1.1	4.7	30.3	0	95.2	70-130	0			
N-Ethylperfluorooctanesulfona	26.12	0.59	4.7	30.3	0	86.2	61-135	0			
N-Ethylperfluorooctanesulfona	33.52	0.49	4.7	30.3	0	111	70-130	0			
N-methylperfluoro-1-octanesul	39.27	0.75	4.7	30.3	0	130	70-130	0			
N-Methylperfluorooctanesulfor	31.64	0.61	4.7	30.3	0	104	65-136	0			
N-Methylperfluorooctanesulfor	30.54	0.46	4.7	30.3	0	101	68-141	0			
Hexafluoropropylene oxide din	29.54	1.1	4.7	30.3	0	97.5	70-130	0			
4,8-Dioxa-3H-perfluorononano	22.24	0.53	4.7	28.5	0	78	70-130	0			
11Cl-Pf3OUdS	27.45	0.44	4.7	28.5	0	96.3	70-130	0			
9Cl-PF3ONS	24.88	0.42	4.7	28.22	0	88.2	70-130	0			
Surr: 13C2-FtS 4:2	*422.3*	0	0	*141.5*	0	*298*	*50-150*	0			*S*
Surr: 13C2-FtS 6:2	*560.6*	0	0	*143.9*	0	*389*	*50-150*	0			*S*
Surr: 13C2-FtS 8:2	*489.6*	0	0	*145.2*	0	*337*	*50-150*	0			*S*
Surr: 13C2-PFDA	*113.2*	0	0	*151.5*	0	*74.7*	*50-150*	0			
Surr: 13C2-PFDoA	*131*	0	0	*151.5*	0	*86.4*	*50-150*	0			
Surr: 13C2-PFHxA	*72.12*	0	0	*151.5*	0	*47.6*	*50-150*	0			*S*
Surr: 13C2-PFHxDA	*102.4*	0	0	*151.5*	0	*67.6*	*50-150*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFTeA	*92.35*	0	0	*151.5*	0	*61*	*50-150*	0	
Surr: 13C2-PFUnA	*138.9*	0	0	*151.5*	0	*91.7*	*50-150*	0	
Surr: 13C3-HFPO-DA	*79.18*	0	0	*151.5*	0	*52.3*	*50-150*	0	
Surr: 13C3-PFBS	*86.92*	0	0	*140.9*	0	*61.7*	*50-150*	0	
Surr: 13C4-PFBA	*86.43*	0	0	*151.5*	0	*57*	*50-150*	0	
Surr: 13C4-PFHpA	*81.01*	0	0	*151.5*	0	*53.5*	*50-150*	0	
Surr: 13C4-PFOA	*93.92*	0	0	*151.5*	0	*62*	*50-150*	0	
Surr: 13C4-PFOS	*86.19*	0	0	*144.7*	0	*59.6*	*50-150*	0	
Surr: 13C5-PFNA	*98.43*	0	0	*151.5*	0	*65*	*50-150*	0	
Surr: 13C5-PFPeA	*78.01*	0	0	*151.5*	0	*51.5*	*50-150*	0	
Surr: 13C8-FOSA	*81.43*	0	0	*151.5*	0	*53.7*	*50-150*	0	
Surr: 18O2-PFHxS	*99.98*	0	0	*143.2*	0	*69.8*	*50-150*	0	
Surr: d5-N-EtFOSA	*62.83*	0	0	*151.5*	0	*41.5*	*50-150*	0	*S*
Surr: d5-N-EtFOSAA	*200.3*	0	0	*151.5*	0	*132*	*50-150*	0	
Surr: d9-N-EtFOSE	*72.18*	0	0	*151.5*	0	*47.6*	*50-150*	0	*S*
Surr: d3-N-MeFOSA	*63.45*	0	0	*151.5*	0	*41.9*	*50-150*	0	*S*
Surr: d3-N-MeFOSAA	*143.7*	0	0	*151.5*	0	*94.9*	*50-150*	0	
Surr: d7-N-MeFOSE	*85.53*	0	0	*151.5*	0	*56.5*	*50-150*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

MSD Sample ID: **21081457-01BMSD** Units: **ng/L** Analysis Date: **8/23/2021 06:38 PM**
Client ID: Run ID: **LCMS1_210823B** SeqNo: **7690008** Prep Date: **8/23/2021** DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluorotelomer Sulphonic Acid	35.13	0.96	5.1	30.51	0	115	63-143	30.52	14	30	
Fluorotelomer Sulphonic Acid	32.57	0.68	5.1	30.92	0	105	64-140	30.45	6.72	30	
Fluorotelomer Sulphonic Acid	36.33	1.2	5.1	31.33	0	116	67-138	27.57	27.4	30	
Fluorotelomer Sulphonic Acid	32.99	0.92	5.1	31.43	0	105	40-160	27.08	19.7	30	
Perfluorobutanesulfonic Acid (	37.03	0.36	5.1	28.88	7.517	102	72-130	33.65	9.55	30	
Perfluorobutanoic Acid (PFBA)	22.85	2.7	5.1	32.65	0	70	73-129	19.9	13.8	30	S
Perfluorodecanesulfonic Acid (	35.4	1.4	5.1	31.43	0	113	53-142	27.6	24.8	30	
Perfluorodecanoic Acid (PFDA	34.08	1.3	5.1	32.65	1.445	100	71-129	31.5	7.88	30	
Perfluorododecanesulfonic Aci	31.78	1.5	5.1	31.63	0	100	69-134	28.69	10.2	30	
Perfluorododecanoic Acid (PFI	30.76	1.5	5.1	32.65	0	94.2	72-134	29.31	4.83	30	
Perfluoroheptanesulfonic Acid	29.66	0.58	5.1	31.12	0	95.3	69-134	27.94	5.96	30	
Perfluoroheptanoic Acid (PFH	37.5	0.45	5.1	32.65	3.385	104	72-130	32.21	15.2	30	
Perfluorohexadecanoic Acid (F	34.82	0.39	5.1	32.65	0	107	70-130	31.02	11.5	30	
Perfluorohexanesulfonic Acid (	36.18	0.38	5.1	29.69	1.768	116	68-131	29.28	21.1	30	
Perfluorohexanoic Acid (PFHx	34.11	1.2	5.1	32.65	3.287	94.4	72-129	32.03	6.29	30	
Perfluorononanesulfonic Acid	32.17	0.51	5.1	31.33	0	103	69-127	28.96	10.5	30	
Perfluorononanoic Acid (PFNA	31.13	0.89	5.1	32.65	1.733	90	69-130	30.5	2.05	30	
Perfluorooctadecanoic Acid (P	31.28	0.66	5.1	32.65	0	95.8	70-130	29.2	6.87	30	
Perfluorooctanesulfonamide (F	37.13	0.73	5.1	32.65	0	114	67-137	34.64	6.94	30	
Perfluorooctanesulfonic Acid (	71.1	0.91	2.0	30.31	44.61	87.4	65-140	71.65	0.766	30	
Perfluorooctanoic Acid (PFOA)	29.51	0.64	2.0	32.65	4.586	76.3	71-133	29.58	0.259	30	
Perfluoropentanesulfonic Acid	28.89	0.57	5.1	30.61	1.38	89.9	71-127	24.97	14.6	30	
Perfluoropentanoic Acid (PFPe	32.98	1.3	5.1	32.65	2.572	93.1	72-129	28.95	13	30	
Perfluorotetradecanoic Acid (F	31.07	2.7	5.1	32.65	0	95.1	71-132	28.02	10.3	30	
Perfluorotridecanoic Acid (PFT	36.38	0.79	5.1	32.65	0	111	65-144	35.41	2.72	30	
Perfluoroundecanoic Acid (PFI	34.08	0.99	5.1	32.65	0	104	69-133	32.56	4.56	30	
N-ethylperfluoro-1-octanesulfo	29.91	1.2	5.1	32.65	0	91.6	70-130	28.85	3.62	30	
N-Ethylperfluorooctanesulfona	27.71	0.64	5.1	32.65	0	84.9	61-135	26.12	5.91	30	
N-Ethylperfluorooctanesulfona	33.8	0.53	5.1	32.65	0	104	70-130	33.52	0.845	30	
N-methylperfluoro-1-octanesul	38.21	0.81	5.1	32.65	0	117	70-130	39.27	2.73	30	
N-Methylperfluorooctanesulfor	34.98	0.66	5.1	32.65	0	107	65-136	31.64	10	30	
N-Methylperfluorooctanesulfor	31.95	0.49	5.1	32.65	0	97.8	68-141	30.54	4.52	30	
Hexafluoropropylene oxide din	38.27	1.2	5.1	32.65	0	117	70-130	29.54	25.7	30	
4,8-Dioxa-3H-perfluorononano	25.3	0.57	5.1	30.71	0	82.4	70-130	22.24	12.9	30	
11Cl-Pf3OUdS	30.2	0.48	5.1	30.71	0	98.3	70-130	27.45	9.55	30	
9Cl-PF3ONS	29.19	0.46	5.1	30.41	0	96	70-130	24.88	15.9	30	
Surr: 13C2-FtS 4:2	*390.2*	0	0	*152.5*	0	*256*	*50-150*	422.3	*7.9*	*30*	*S*
Surr: 13C2-FtS 6:2	*590.1*	0	0	*155.1*	0	*380*	*50-150*	560.6	*5.12*	*30*	*S*
Surr: 13C2-FtS 8:2	*468.5*	0	0	*156.4*	0	*300*	*50-150*	489.6	*4.42*	*30*	*S*
Surr: 13C2-PFDA	*111.6*	0	0	*163.3*	0	*68.4*	*50-150*	113.2	*1.44*	*30*	
Surr: 13C2-PFDoA	*145.2*	0	0	*163.3*	0	*88.9*	*50-150*	131	*10.3*	*30*	
Surr: 13C2-PFHxA	*78.58*	0	0	*163.3*	0	*48.1*	*50-150*	72.12	*8.58*	*30*	*S*
Surr: 13C2-PFHxDA	*106.1*	0	0	*163.3*	0	*65*	*50-150*	102.4	*3.54*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **182387** Instrument ID **LCMS1** Method: **E537 Mod**

Surr: 13C2-PFTeA	*96.47*	0	0	*163.3*	0	*59.1*	*50-150*	92.35	*4.37*	*30*	
Surr: 13C2-PFUnA	*144.9*	0	0	*163.3*	0	*88.8*	*50-150*	138.9	*4.21*	*30*	
Surr: 13C3-HFPO-DA	*76.02*	0	0	*163.3*	0	*46.6*	*50-150*	79.18	*4.08*	*30*	*S*
Surr: 13C3-PFBS	*87.02*	0	0	*151.8*	0	*57.3*	*50-150*	86.92	*0.121*	*30*	
Surr: 13C4-PFBA	*87.15*	0	0	*163.3*	0	*53.4*	*50-150*	86.43	*0.834*	*30*	
Surr: 13C4-PFHpA	*77.17*	0	0	*163.3*	0	*47.3*	*50-150*	81.01	*4.86*	*30*	*S*
Surr: 13C4-PFOA	*102.3*	0	0	*163.3*	0	*62.6*	*50-150*	93.92	*8.52*	*30*	
Surr: 13C4-PFOS	*88.92*	0	0	*155.9*	0	*57*	*50-150*	86.19	*3.12*	*30*	
Surr: 13C5-PFNA	*110.7*	0	0	*163.3*	0	*67.8*	*50-150*	98.43	*11.7*	*30*	
Surr: 13C5-PFPeA	*78.39*	0	0	*163.3*	0	*48*	*50-150*	78.01	*0.491*	*30*	*S*
Surr: 13C8-FOSA	*92.67*	0	0	*163.3*	0	*56.8*	*50-150*	81.43	*12.9*	*30*	
Surr: 18O2-PFHxS	*103.8*	0	0	*154.3*	0	*67.3*	*50-150*	99.98	*3.78*	*30*	
Surr: d5-N-EtFOSA	*81.57*	0	0	*163.3*	0	*50*	*50-150*	62.83	*26*	*30*	*S*
Surr: d5-N-EtFOSAA	*223.9*	0	0	*163.3*	0	*137*	*50-150*	200.3	*11.1*	*30*	
Surr: d9-N-EtFOSE	*84.93*	0	0	*163.3*	0	*52*	*50-150*	72.18	*16.2*	*30*	
Surr: d3-N-MeFOSA	*84.82*	0	0	*163.3*	0	*52*	*50-150*	63.45	*28.8*	*30*	
Surr: d3-N-MeFOSAA	*149.1*	0	0	*163.3*	0	*91.3*	*50-150*	143.7	*3.66*	*30*	
Surr: d7-N-MeFOSE	*99.27*	0	0	*163.3*	0	*60.8*	*50-150*	85.53	*14.9*	*30*	

The following samples were analyzed in this batch: 21081889-01B 21081889-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **8V-BLKW1-210826-R325427B** Units: **µg/L** Analysis Date: **8/27/2021 12:10 AM**
Client ID: Run ID: **VMS8_210826B** SeqNo: **7701424** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.38	1.3								
1,1,1-Trichloroethane	U	0.46	1.5								
1,1,2,2-Tetrachloroethane	U	0.4	1.3								
1,1,2-Trichloroethane	U	0.46	1.5								
1,1-Dichloroethane	U	0.44	1.5								
1,1-Dichloroethene	U	0.4	1.4								
1,1-Dichloropropene	U	0.37	1.2								
1,2,3-Trichlorobenzene	U	0.42	1.4								
1,2,3-Trichloropropane	U	0.4	1.3								
1,2,4-Trichlorobenzene	U	0.45	1.5								
1,2,4-Trimethylbenzene	U	0.45	1.5								
1,2-Dibromo-3-chloropropane	U	0.43	1.4								
1,2-Dibromoethane	U	0.41	1.4								
1,2-Dichlorobenzene	U	0.32	1.1								
1,2-Dichloroethane	U	0.44	1.4								
1,2-Dichloropropane	U	0.48	1.6								
1,3,5-Trimethylbenzene	U	0.65	2.2								
1,3-Dichlorobenzene	U	0.33	1.1								
1,3-Dichloropropane	U	0.4	1.3								
1,4-Dichlorobenzene	U	0.35	1.2								
2,2-Dichloropropane	U	0.52	1.7								
2-Butanone	U	0.52	1.7								
2-Chlorotoluene	U	0.36	1.2								
4-Chlorotoluene	U	0.31	1.0								
4-Methyl-2-pentanone	U	0.52	1.7								
Acetone	U	6.2	21								
Benzene	U	0.46	1.5								
Bromobenzene	U	0.38	1.3								
Bromochloromethane	U	0.45	1.5								
Bromodichloromethane	U	0.49	1.6								
Bromoform	U	0.56	1.9								
Bromomethane	U	0.9	3.0								
Carbon tetrachloride	U	0.4	1.4								
Chlorobenzene	U	0.4	1.3								
Chloroethane	U	0.68	2.3								
Chloroform	U	0.46	1.5								
Chloromethane	U	0.83	2.8								
cis-1,2-Dichloroethene	U	0.42	1.4								
cis-1,3-Dichloropropene	U	0.57	1.9								
Dibromochloromethane	U	0.4	1.3								
Dibromomethane	U	0.65	2.2								
Dichlorodifluoromethane	U	0.68	2.3								
Ethylbenzene	U	0.34	1.1								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	U	0.56	1.9					
Isopropylbenzene	U	0.35	1.2					
m,p-Xylene	U	0.81	2.7					
Methyl tert-butyl ether	U	0.45	1.5					
Methylene chloride	U	0.86	2.9					
Naphthalene	U	0.77	2.6					
n-Butylbenzene	U	0.34	1.1					
n-Propylbenzene	U	0.48	1.6					
o-Xylene	U	0.31	1.0					
p-Isopropyltoluene	U	0.26	0.88					
sec-Butylbenzene	U	0.3	1.0					
Styrene	U	0.33	1.1					
tert-Butylbenzene	U	0.39	1.3					
Tetrachloroethene	U	0.39	1.3					
Toluene	U	0.45	1.5					
trans-1,2-Dichloroethene	U	0.48	1.6					
trans-1,3-Dichloropropene	U	0.38	2.7					
Trichloroethene	U	0.43	1.4					
Trichlorofluoromethane	U	0.52	1.7					
Vinyl chloride	U	0.53	1.8					
Xylenes, Total	U	0.81	4.4					
Surr: 1,2-Dichloroethane-d4	*19.7*	0	0	*20*	0	*98.5*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.15*	0	0	*20*	0	*95.8*	*80-110*	0
Surr: Dibromofluoromethane	*20.25*	0	0	*20*	0	*101*	*85-115*	0
Surr: Toluene-d8	*20.12*	0	0	*20*	0	*101*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

LCS Sample ID: **8V-LCSW1-210826-R325427B** Units: **µg/L** Analysis Date: **8/26/2021 11:10 PM**
Client ID: Run ID: **VMS8_210826B** SeqNo: **7701422** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.79	0.38	1.3	20	0	89	73-114	0			
1,1,1-Trichloroethane	18.06	0.46	1.5	20	0	90.3	75-130	0			
1,1,2,2-Tetrachloroethane	20.07	0.4	1.3	20	0	100	75-130	0			
1,1,2-Trichloroethane	18.24	0.46	1.5	20	0	91.2	75-125	0			
1,1-Dichloroethane	17	0.44	1.5	20	0	85	68-142	0			
1,1-Dichloroethene	18.47	0.4	1.4	20	0	92.4	70-145	0			
1,1-Dichloropropene	18.01	0.37	1.2	20	0	90	75-135	0			
1,2,3-Trichlorobenzene	18.1	0.42	1.4	20	0	90.5	70-140	0			
1,2,3-Trichloropropane	17.51	0.4	1.3	20	0	87.6	75-125	0			
1,2,4-Trichlorobenzene	18.53	0.45	1.5	20	0	92.6	70-135	0			
1,2,4-Trimethylbenzene	17.06	0.45	1.5	20	0	85.3	75-130	0			
1,2-Dibromo-3-chloropropane	17.38	0.43	1.4	20	0	86.9	60-130	0			
1,2-Dibromoethane	18.5	0.41	1.4	20	0	92.5	67-155	0			
1,2-Dichlorobenzene	16.54	0.32	1.1	20	0	82.7	70-130	0			
1,2-Dichloroethane	17.92	0.44	1.4	20	0	89.6	78-125	0			
1,2-Dichloropropane	19.26	0.48	1.6	20	0	96.3	75-125	0			
1,3,5-Trimethylbenzene	16.68	0.65	2.2	20	0	83.4	75-130	0			
1,3-Dichlorobenzene	18.18	0.33	1.1	20	0	90.9	75-130	0			
1,3-Dichloropropane	18.71	0.4	1.3	20	0	93.6	75-125	0			
1,4-Dichlorobenzene	16.65	0.35	1.2	20	0	83.2	75-130	0			
2,2-Dichloropropane	19.12	0.52	1.7	20	0	95.6	43-150	0			
2-Butanone	19.42	0.52	1.7	20	0	97.1	55-150	0			
2-Chlorotoluene	16.49	0.36	1.2	20	0	82.4	76-117	0			
4-Chlorotoluene	16.4	0.31	1.0	20	0	82	80-125	0			
4-Methyl-2-pentanone	18.49	0.52	1.7	20	0	92.4	77-178	0			
Acetone	19.19	6.2	21	20	0	96	60-160	0			J
Benzene	18.09	0.46	1.5	20	0	90.4	70-130	0			
Bromobenzene	18.05	0.38	1.3	20	0	90.2	80-125	0			
Bromochloromethane	17.28	0.45	1.5	20	0	86.4	72-141	0			
Bromodichloromethane	18.22	0.49	1.6	20	0	91.1	75-125	0			
Bromoform	14.95	0.56	1.9	20	0	74.8	60-125	0			
Bromomethane	19.24	0.9	3.0	20	0	96.2	30-185	0			
Carbon tetrachloride	16.62	0.4	1.4	20	0	83.1	65-140	0			
Chlorobenzene	18.37	0.4	1.3	20	0	91.8	80-120	0			
Chloroethane	17.62	0.68	2.3	20	0	88.1	31-172	0			
Chloroform	17.07	0.46	1.5	20	0	85.4	66-135	0			
Chloromethane	14.98	0.83	2.8	20	0	74.9	46-148	0			
cis-1,2-Dichloroethene	17.69	0.42	1.4	20	0	88.4	75-134	0			
cis-1,3-Dichloropropene	16.56	0.57	1.9	20	0	82.8	70-130	0			
Dibromochloromethane	16.35	0.4	1.3	20	0	81.8	60-115	0			
Dibromomethane	18.33	0.65	2.2	20	0	91.6	79-126	0			
Dichlorodifluoromethane	18.63	0.68	2.3	20	0	93.2	10-180	0			
Ethylbenzene	16.64	0.34	1.1	20	0	83.2	76-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	18.91	0.56	1.9	20	0	94.6	70-155	0
Isopropylbenzene	18.83	0.35	1.2	20	0	94.2	80-127	0
m,p-Xylene	33.59	0.81	2.7	40	0	84	75-130	0
Methyl tert-butyl ether	20.47	0.45	1.5	20	0	102	68-129	0
Methylene chloride	18.17	0.86	2.9	20	0	90.8	72-125	0
Naphthalene	17.07	0.77	2.6	20	0	85.4	55-160	0
n-Butylbenzene	16.19	0.34	1.1	20	0	81	75-145	0
n-Propylbenzene	16.73	0.48	1.6	20	0	83.6	76-116	0
o-Xylene	17.18	0.31	1.0	20	0	85.9	76-127	0
p-Isopropyltoluene	16.66	0.26	0.88	20	0	83.3	61-164	0
sec-Butylbenzene	17.27	0.3	1.0	20	0	86.4	80-134	0
Styrene	18.56	0.33	1.1	20	0	92.8	79-117	0
tert-Butylbenzene	17.38	0.39	1.3	20	0	86.9	70-130	0
Tetrachloroethene	17.69	0.39	1.3	20	0	88.4	68-166	0
Toluene	17.71	0.45	1.5	20	0	88.6	76-125	0
trans-1,2-Dichloroethene	18.08	0.48	1.6	20	0	90.4	80-140	0
trans-1,3-Dichloropropene	18.22	0.38	2.7	20	0	91.1	56-132	0
Trichloroethene	16.19	0.43	1.4	20	0	81	77-125	0
Trichlorofluoromethane	18.65	0.52	1.7	20	0	93.2	60-140	0
Vinyl chloride	18.22	0.53	1.8	20	0	91.1	50-136	0
Xylenes, Total	50.77	0.81	4.4	60	0	84.6	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.36*	0	0	*20*	0	*96.8*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.2*	0	0	*20*	0	*101*	*80-110*	0
Surr: Dibromofluoromethane	*19.91*	0	0	*20*	0	*99.6*	*85-115*	0
Surr: Toluene-d8	*20.13*	0	0	*20*	0	*101*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **21081675-01A MS** Units: **µg/L** Analysis Date: **8/27/2021 07:26 AM**
Client ID: Run ID: **VMS8_210826B** SeqNo: **7701446** Prep Date: DF: **100**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1950	38	130	2000	0	97.5	73-114	0			
1,1,1-Trichloroethane	1988	46	150	2000	0	99.4	75-130	0			
1,1,2,2-Tetrachloroethane	2066	40	130	2000	0	103	75-130	0			
1,1,2-Trichloroethane	1975	46	150	2000	0	98.8	75-125	0			
1,1-Dichloroethane	1882	44	150	2000	0	94.1	68-142	0			
1,1-Dichloroethene	2155	40	140	2000	0	108	70-145	0			
1,1-Dichloropropene	1902	37	120	2000	0	95.1	75-135	0			
1,2,3-Trichlorobenzene	1752	42	140	2000	0	87.6	70-140	0			
1,2,3-Trichloropropane	1856	40	130	2000	0	92.8	75-125	0			
1,2,4-Trichlorobenzene	1813	45	150	2000	0	90.6	70-135	0			
1,2,4-Trimethylbenzene	1880	45	150	2000	0	94	75-130	0			
1,2-Dibromo-3-chloropropane	1627	43	140	2000	0	81.4	60-130	0			
1,2-Dibromoethane	1982	41	140	2000	0	99.1	67-155	0			
1,2-Dichlorobenzene	1763	32	110	2000	0	88.2	70-130	0			
1,2-Dichloroethane	1943	44	140	2000	0	97.2	78-125	0			
1,2-Dichloropropane	2086	48	160	2000	0	104	75-125	0			
1,3,5-Trimethylbenzene	1851	65	220	2000	0	92.6	75-130	0			
1,3-Dichlorobenzene	1986	33	110	2000	0	99.3	75-130	0			
1,3-Dichloropropane	1996	40	130	2000	0	99.8	75-125	0			
1,4-Dichlorobenzene	1802	35	120	2000	0	90.1	75-130	0			
2,2-Dichloropropane	1767	52	170	2000	0	88.4	43-150	0			
2-Butanone	2041	52	170	2000	0	102	55-150	0			
2-Chlorotoluene	1825	36	120	2000	0	91.2	76-117	0			
4-Chlorotoluene	1854	31	100	2000	0	92.7	80-125	0			
4-Methyl-2-pentanone	2664	52	170	2000	0	133	77-178	0			
Acetone	1929	620	2,100	2000	0	96.4	60-160	0			J
Benzene	1998	46	150	2000	0	99.9	70-130	0			
Bromobenzene	1965	38	130	2000	0	98.2	80-125	0			
Bromochloromethane	2107	45	150	2000	0	105	72-141	0			
Bromodichloromethane	1988	49	160	2000	0	99.4	75-125	0			
Bromoform	1601	56	190	2000	0	80	60-125	0			
Bromomethane	3326	90	300	2000	0	166	30-185	0			
Carbon tetrachloride	1935	40	140	2000	0	96.8	65-140	0			
Chlorobenzene	2010	40	130	2000	0	100	80-120	0			
Chloroethane	3797	68	230	2000	0	190	31-172	0			S
Chloroform	1918	46	150	2000	0	95.9	66-135	0			
Chloromethane	1412	83	280	2000	0	70.6	46-148	0			
cis-1,2-Dichloroethene	1912	42	140	2000	0	95.6	75-134	0			
cis-1,3-Dichloropropene	1801	57	190	2000	0	90	70-130	0			
Dibromochloromethane	1796	40	130	2000	0	89.8	60-115	0			
Dibromomethane	1976	65	220	2000	0	98.8	79-126	0			
Dichlorodifluoromethane	1753	68	230	2000	0	87.6	10-180	0			
Ethylbenzene	1851	34	110	2000	0	92.6	76-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	2033	56	190	2000	0	102	70-155	0
Isopropylbenzene	2144	35	120	2000	0	107	80-127	0
m,p-Xylene	3812	81	270	4000	0	95.3	75-130	0
Methyl tert-butyl ether	2498	45	150	2000	0	125	68-129	0
Methylene chloride	1980	86	290	2000	0	99	72-125	0
Naphthalene	1687	77	260	2000	0	84.4	55-160	0
n-Butylbenzene	1788	34	110	2000	0	89.4	75-145	0
n-Propylbenzene	1877	48	160	2000	0	93.8	76-116	0
o-Xylene	1897	31	100	2000	0	94.8	76-127	0
p-Isopropyltoluene	1899	26	88	2000	0	95	61-164	0
sec-Butylbenzene	1954	30	100	2000	0	97.7	80-134	0
Styrene	2057	33	110	2000	0	103	79-117	0
tert-Butylbenzene	2000	39	130	2000	0	100	70-130	0
Tetrachloroethene	1881	39	130	2000	26	92.8	68-166	0
Toluene	1927	45	150	2000	0	96.4	76-125	0
trans-1,2-Dichloroethene	2044	48	160	2000	0	102	80-140	0
trans-1,3-Dichloropropene	1894	38	270	2000	0	94.7	56-132	0
Trichloroethene	1814	43	140	2000	0	90.7	77-125	0
Trichlorofluoromethane	2136	52	170	2000	0	107	60-140	0
Vinyl chloride	1872	53	180	2000	0	93.6	50-136	0
Xylenes, Total	5709	81	440	6000	0	95.2	76-127	0
Surr: 1,2-Dichloroethane-d4	*1953*	0	0	*2000*	0	*97.6*	*75-120*	0
Surr: 4-Bromofluorobenzene	*2075*	0	0	*2000*	0	*104*	*80-110*	0
Surr: Dibromofluoromethane	*2026*	0	0	*2000*	0	*101*	*85-115*	0
Surr: Toluene-d8	*2013*	0	0	*2000*	0	*101*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **21081675-01A MSD** Units: **µg/L** Analysis Date: **8/27/2021 07:46 AM**
Client ID: Run ID: **VMS8_210826B** SeqNo: **7701447** Prep Date: DF: **100**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1926	38	130	2000	0	96.3	73-114	1950	1.24	30	
1,1,1-Trichloroethane	2024	46	150	2000	0	101	75-130	1988	1.79	30	
1,1,2,2-Tetrachloroethane	1982	40	130	2000	0	99.1	75-130	2066	4.15	30	
1,1,2-Trichloroethane	1918	46	150	2000	0	95.9	75-125	1975	2.93	30	
1,1-Dichloroethane	1902	44	150	2000	0	95.1	68-142	1882	1.06	30	
1,1-Dichloroethene	2086	40	140	2000	0	104	70-145	2155	3.25	30	
1,1-Dichloropropene	1974	37	120	2000	0	98.7	75-135	1902	3.72	30	
1,2,3-Trichlorobenzene	1767	42	140	2000	0	88.4	70-140	1752	0.853	30	
1,2,3-Trichloropropane	1745	40	130	2000	0	87.2	75-125	1856	6.16	30	
1,2,4-Trichlorobenzene	1785	45	150	2000	0	89.2	70-135	1813	1.56	30	
1,2,4-Trimethylbenzene	1805	45	150	2000	0	90.2	75-130	1880	4.07	30	
1,2-Dibromo-3-chloropropane	1632	43	140	2000	0	81.6	60-130	1627	0.307	30	
1,2-Dibromoethane	1952	41	140	2000	0	97.6	67-155	1982	1.53	30	
1,2-Dichlorobenzene	1727	32	110	2000	0	86.4	70-130	1763	2.06	30	
1,2-Dichloroethane	1925	44	140	2000	0	96.2	78-125	1943	0.931	30	
1,2-Dichloropropane	2088	48	160	2000	0	104	75-125	2086	0.0958	30	
1,3,5-Trimethylbenzene	1814	65	220	2000	0	90.7	75-130	1851	2.02	30	
1,3-Dichlorobenzene	1946	33	110	2000	0	97.3	75-130	1986	2.03	30	
1,3-Dichloropropane	1917	40	130	2000	0	95.8	75-125	1996	4.04	30	
1,4-Dichlorobenzene	1799	35	120	2000	0	90	75-130	1802	0.167	30	
2,2-Dichloropropane	1752	52	170	2000	0	87.6	43-150	1767	0.853	30	
2-Butanone	2072	52	170	2000	0	104	55-150	2041	1.51	30	
2-Chlorotoluene	1750	36	120	2000	0	87.5	76-117	1825	4.2	30	
4-Chlorotoluene	1787	31	100	2000	0	89.4	80-125	1854	3.68	30	
4-Methyl-2-pentanone	2669	52	170	2000	0	133	77-178	2664	0.188	30	
Acetone	1917	620	2,100	2000	0	95.8	60-160	1929	0	30	J
Benzene	1985	46	150	2000	0	99.2	70-130	1998	0.653	30	
Bromobenzene	1908	38	130	2000	0	95.4	80-125	1965	2.94	30	
Bromochloromethane	2070	45	150	2000	0	104	72-141	2107	1.77	30	
Bromodichloromethane	1999	49	160	2000	0	100	75-125	1988	0.552	30	
Bromoform	1596	56	190	2000	0	79.8	60-125	1601	0.313	30	
Bromomethane	3286	90	300	2000	0	164	30-185	3326	1.21	30	
Carbon tetrachloride	1936	40	140	2000	0	96.8	65-140	1935	0.0517	30	
Chlorobenzene	1959	40	130	2000	0	98	80-120	2010	2.57	30	
Chloroethane	3719	68	230	2000	0	186	31-172	3797	2.08	30	S
Chloroform	1868	46	150	2000	0	93.4	66-135	1918	2.64	30	
Chloromethane	1368	83	280	2000	0	68.4	46-148	1412	3.17	30	
cis-1,2-Dichloroethene	1905	42	140	2000	0	95.2	75-134	1912	0.367	30	
cis-1,3-Dichloropropene	1773	57	190	2000	0	88.6	70-130	1801	1.57	30	
Dibromochloromethane	1773	40	130	2000	0	88.6	60-115	1796	1.29	30	
Dibromomethane	1955	65	220	2000	0	97.8	79-126	1976	1.07	30	
Dichlorodifluoromethane	1648	68	230	2000	0	82.4	10-180	1753	6.17	30	
Ethylbenzene	1803	34	110	2000	0	90.2	76-123	1851	2.63	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325427B** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	1948	56	190	2000	0	97.4	70-155	2033	4.27	30
Isopropylbenzene	2043	35	120	2000	0	102	80-127	2144	4.82	30
m,p-Xylene	3659	81	270	4000	0	91.5	75-130	3812	4.1	30
Methyl tert-butyl ether	2415	45	150	2000	0	121	68-129	2498	3.38	30
Methylene chloride	1956	86	290	2000	0	97.8	72-125	1980	1.22	30
Naphthalene	1684	77	260	2000	0	84.2	55-160	1687	0.178	30
n-Butylbenzene	1763	34	110	2000	0	88.2	75-145	1788	1.41	30
n-Propylbenzene	1787	48	160	2000	0	89.4	76-116	1877	4.91	30
o-Xylene	1809	31	100	2000	0	90.4	76-127	1897	4.75	30
p-Isopropyltoluene	1851	26	88	2000	0	92.6	61-164	1899	2.56	30
sec-Butylbenzene	1866	30	100	2000	0	93.3	80-134	1954	4.61	30
Styrene	1974	33	110	2000	0	98.7	79-117	2057	4.12	30
tert-Butylbenzene	1868	39	130	2000	0	93.4	70-130	2000	6.83	30
Tetrachloroethene	1923	39	130	2000	26	94.8	68-166	1881	2.21	30
Toluene	1885	45	150	2000	0	94.2	76-125	1927	2.2	30
trans-1,2-Dichloroethene	1970	48	160	2000	0	98.5	80-140	2044	3.69	30
trans-1,3-Dichloropropene	1848	38	270	2000	0	92.4	56-132	1894	2.46	30
Trichloroethene	1744	43	140	2000	0	87.2	77-125	1814	3.93	30
Trichlorofluoromethane	2190	52	170	2000	0	110	60-140	2136	2.5	30
Vinyl chloride	1847	53	180	2000	0	92.4	50-136	1872	1.34	30
Xylenes, Total	5468	81	440	6000	0	91.1	76-127	5709	4.31	30
Surr: 1,2-Dichloroethane-d4	*1997*	0	0	*2000*	0	*99.8*	*75-120*	1953	*2.23*	*30*
Surr: 4-Bromofluorobenzene	*1915*	0	0	*2000*	0	*95.8*	*80-110*	2075	*8.02*	*30*
Surr: Dibromofluoromethane	*2062*	0	0	*2000*	0	*103*	*85-115*	2026	*1.76*	*30*
Surr: Toluene-d8	*1990*	0	0	*2000*	0	*99.5*	*85-110*	2013	*1.15*	*30*

The following samples were analyzed in this batch:

21081889-01A	21081889-02A	21081889-03A
21081889-04A	21081889-05A	21081889-06A
21081889-07A	21081889-08A	21081889-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

MBLK Sample ID: **8V-BLKW1-210827-R325443a** Units: **µg/L** Analysis Date: **8/27/2021 02:43 PM**
Client ID: Run ID: **VMS8_210827A** SeqNo: **7704532** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	U	0.38	1.3								
1,1,1-Trichloroethane	U	0.46	1.5								
1,1,2,2-Tetrachloroethane	U	0.4	1.3								
1,1,2-Trichloroethane	U	0.46	1.5								
1,1-Dichloroethane	U	0.44	1.5								
1,1-Dichloroethene	U	0.4	1.4								
1,1-Dichloropropene	U	0.37	1.2								
1,2,3-Trichlorobenzene	U	0.42	1.4								
1,2,3-Trichloropropane	U	0.4	1.3								
1,2,4-Trichlorobenzene	U	0.45	1.5								
1,2,4-Trimethylbenzene	U	0.45	1.5								
1,2-Dibromo-3-chloropropane	U	0.43	1.4								
1,2-Dibromoethane	U	0.41	1.4								
1,2-Dichlorobenzene	U	0.32	1.1								
1,2-Dichloroethane	U	0.44	1.4								
1,2-Dichloropropane	U	0.48	1.6								
1,3,5-Trimethylbenzene	U	0.65	2.2								
1,3-Dichlorobenzene	U	0.33	1.1								
1,3-Dichloropropane	U	0.4	1.3								
1,4-Dichlorobenzene	U	0.35	1.2								
2,2-Dichloropropane	U	0.52	1.7								
2-Butanone	U	0.52	1.7								
2-Chlorotoluene	U	0.36	1.2								
4-Chlorotoluene	U	0.31	1.0								
4-Methyl-2-pentanone	U	0.52	1.7								
Acetone	U	6.2	21								
Benzene	U	0.46	1.5								
Bromobenzene	U	0.38	1.3								
Bromochloromethane	U	0.45	1.5								
Bromodichloromethane	U	0.49	1.6								
Bromoform	U	0.56	1.9								
Bromomethane	U	0.9	3.0								
Carbon tetrachloride	U	0.4	1.4								
Chlorobenzene	U	0.4	1.3								
Chloroethane	U	0.68	2.3								
Chloroform	U	0.46	1.5								
Chloromethane	U	0.83	2.8								
cis-1,2-Dichloroethene	U	0.42	1.4								
cis-1,3-Dichloropropene	U	0.57	1.9								
Dibromochloromethane	U	0.4	1.3								
Dibromomethane	U	0.65	2.2								
Dichlorodifluoromethane	U	0.68	2.3								
Ethylbenzene	U	0.34	1.1								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	U	0.56	1.9					
Isopropylbenzene	U	0.35	1.2					
m,p-Xylene	U	0.81	2.7					
Methyl tert-butyl ether	U	0.45	1.5					
Methylene chloride	U	0.86	2.9					
Naphthalene	U	0.77	2.6					
n-Butylbenzene	U	0.34	1.1					
n-Propylbenzene	U	0.48	1.6					
o-Xylene	U	0.31	1.0					
p-Isopropyltoluene	U	0.26	0.88					
sec-Butylbenzene	U	0.3	1.0					
Styrene	U	0.33	1.1					
tert-Butylbenzene	U	0.39	1.3					
Tetrachloroethene	U	0.39	1.3					
Toluene	U	0.45	1.5					
trans-1,2-Dichloroethene	U	0.48	1.6					
trans-1,3-Dichloropropene	U	0.38	2.7					
Trichloroethene	U	0.43	1.4					
Trichlorofluoromethane	U	0.52	1.7					
Vinyl chloride	U	0.53	1.8					
Xylenes, Total	U	0.81	4.4					
Surr: 1,2-Dichloroethane-d4	*20.3*	0	0	*20*	0	*102*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.55*	0	0	*20*	0	*97.8*	*80-110*	0
Surr: Dibromofluoromethane	*20.45*	0	0	*20*	0	*102*	*85-115*	0
Surr: Toluene-d8	*19.9*	0	0	*20*	0	*99.5*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

LCS Sample ID: **8V-LCSW1-210827-R325443a** Units: **µg/L** Analysis Date: **8/27/2021 01:44 PM**
Client ID: Run ID: **VMS8_210827A** SeqNo: **7704530** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	18.07	0.38	1.3	20	0	90.4	73-114	0			
1,1,1-Trichloroethane	17.95	0.46	1.5	20	0	89.8	75-130	0			
1,1,2,2-Tetrachloroethane	20.56	0.4	1.3	20	0	103	75-130	0			
1,1,2-Trichloroethane	18.45	0.46	1.5	20	0	92.2	75-125	0			
1,1-Dichloroethane	17.3	0.44	1.5	20	0	86.5	68-142	0			
1,1-Dichloroethene	17.42	0.4	1.4	20	0	87.1	70-145	0			
1,1-Dichloropropene	17.4	0.37	1.2	20	0	87	75-135	0			
1,2,3-Trichlorobenzene	17.63	0.42	1.4	20	0	88.2	70-140	0			
1,2,3-Trichloropropane	17.72	0.4	1.3	20	0	88.6	75-125	0			
1,2,4-Trichlorobenzene	17.88	0.45	1.5	20	0	89.4	70-135	0			
1,2,4-Trimethylbenzene	17.43	0.45	1.5	20	0	87.2	75-130	0			
1,2-Dibromo-3-chloropropane	16.59	0.43	1.4	20	0	83	60-130	0			
1,2-Dibromoethane	19.68	0.41	1.4	20	0	98.4	67-155	0			
1,2-Dichlorobenzene	16.79	0.32	1.1	20	0	84	70-130	0			
1,2-Dichloroethane	18.69	0.44	1.4	20	0	93.4	78-125	0			
1,2-Dichloropropane	20.22	0.48	1.6	20	0	101	75-125	0			
1,3,5-Trimethylbenzene	17.23	0.65	2.2	20	0	86.2	75-130	0			
1,3-Dichlorobenzene	18.58	0.33	1.1	20	0	92.9	75-130	0			
1,3-Dichloropropane	19.03	0.4	1.3	20	0	95.2	75-125	0			
1,4-Dichlorobenzene	17.33	0.35	1.2	20	0	86.6	75-130	0			
2,2-Dichloropropane	21.9	0.52	1.7	20	0	110	43-150	0			
2-Butanone	18.4	0.52	1.7	20	0	92	55-150	0			
2-Chlorotoluene	16.8	0.36	1.2	20	0	84	76-117	0			
4-Chlorotoluene	16.92	0.31	1.0	20	0	84.6	80-125	0			
4-Methyl-2-pentanone	26.68	0.52	1.7	20	0	133	77-178	0			
Acetone	18.53	6.2	21	20	0	92.6	60-160	0			J
Benzene	18.98	0.46	1.5	20	0	94.9	70-130	0			
Bromobenzene	18.32	0.38	1.3	20	0	91.6	80-125	0			
Bromochloromethane	19.34	0.45	1.5	20	0	96.7	72-141	0			
Bromodichloromethane	18.54	0.49	1.6	20	0	92.7	75-125	0			
Bromoform	15.07	0.56	1.9	20	0	75.4	60-125	0			
Bromomethane	18.55	0.9	3.0	20	0	92.8	30-185	0			
Carbon tetrachloride	16.09	0.4	1.4	20	0	80.4	65-140	0			
Chlorobenzene	18.76	0.4	1.3	20	0	93.8	80-120	0			
Chloroethane	17.38	0.68	2.3	20	0	86.9	31-172	0			
Chloroform	17.23	0.46	1.5	20	0	86.2	66-135	0			
Chloromethane	12.45	0.83	2.8	20	0	62.2	46-148	0			
cis-1,2-Dichloroethene	18.83	0.42	1.4	20	0	94.2	75-134	0			
cis-1,3-Dichloropropene	17.96	0.57	1.9	20	0	89.8	70-130	0			
Dibromochloromethane	16.93	0.4	1.3	20	0	84.6	60-115	0			
Dibromomethane	18.56	0.65	2.2	20	0	92.8	79-126	0			
Dichlorodifluoromethane	13.02	0.68	2.3	20	0	65.1	10-180	0			
Ethylbenzene	16.67	0.34	1.1	20	0	83.4	76-123	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	19.21	0.56	1.9	20	0	96	70-155	0
Isopropylbenzene	19.07	0.35	1.2	20	0	95.4	80-127	0
m,p-Xylene	34.55	0.81	2.7	40	0	86.4	75-130	0
Methyl tert-butyl ether	18.05	0.45	1.5	20	0	90.2	68-129	0
Methylene chloride	18.3	0.86	2.9	20	0	91.5	72-125	0
Naphthalene	16.52	0.77	2.6	20	0	82.6	55-160	0
n-Butylbenzene	16.49	0.34	1.1	20	0	82.4	75-145	0
n-Propylbenzene	16.94	0.48	1.6	20	0	84.7	76-116	0
o-Xylene	17.41	0.31	1.0	20	0	87	76-127	0
p-Isopropyltoluene	17.44	0.26	0.88	20	0	87.2	61-164	0
sec-Butylbenzene	18.01	0.3	1.0	20	0	90	80-134	0
Styrene	19.38	0.33	1.1	20	0	96.9	79-117	0
tert-Butylbenzene	17.75	0.39	1.3	20	0	88.8	70-130	0
Tetrachloroethene	17.31	0.39	1.3	20	0	86.6	68-166	0
Toluene	17.95	0.45	1.5	20	0	89.8	76-125	0
trans-1,2-Dichloroethene	17.97	0.48	1.6	20	0	89.8	80-140	0
trans-1,3-Dichloropropene	19.06	0.38	2.7	20	0	95.3	56-132	0
Trichloroethene	16.41	0.43	1.4	20	0	82	77-125	0
Trichlorofluoromethane	14.97	0.52	1.7	20	0	74.8	60-140	0
Vinyl chloride	14.52	0.53	1.8	20	0	72.6	50-136	0
Xylenes, Total	51.96	0.81	4.4	60	0	86.6	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.52*	0	0	*20*	0	*97.6*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.3*	0	0	*20*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*20.05*	0	0	*20*	0	*100*	*85-115*	0
Surr: Toluene-d8	*20.33*	0	0	*20*	0	*102*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

MS Sample ID: **21082011-02A MS** Units: **µg/L** Analysis Date: **8/27/2021 11:11 PM**
Client ID: Run ID: **VMS8_210827A** SeqNo: **7704557** Prep Date: DF: **20**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	381.8	7.6	26	400	0	95.4	73-114	0			H
1,1,1-Trichloroethane	413.6	9.2	30	400	0	103	75-130	0			H
1,1,2,2-Tetrachloroethane	405.4	8	27	400	0	101	75-130	0			H
1,1,2-Trichloroethane	392.6	9.2	31	400	0	98.2	75-125	0			H
1,1-Dichloroethane	385.8	8.8	29	400	0	96.4	68-142	0			H
1,1-Dichloroethene	456	8	27	400	0	114	70-145	0			H
1,1-Dichloropropene	389.2	7.4	25	400	0	97.3	75-135	0			H
1,2,3-Trichlorobenzene	288.8	8.4	28	400	0	72.2	70-140	0			H
1,2,3-Trichloropropane	351.4	8	26	400	0	87.8	75-125	0			H
1,2,4-Trichlorobenzene	333.2	9	30	400	0	83.3	70-135	0			H
1,2,4-Trimethylbenzene	386.8	9	30	400	0	96.7	75-130	0			H
1,2-Dibromo-3-chloropropane	284.2	8.6	29	400	0	71	60-130	0			H
1,2-Dibromoethane	396.8	8.2	27	400	0	99.2	67-155	0			H
1,2-Dichlorobenzene	354.4	6.4	21	400	0	88.6	70-130	0			H
1,2-Dichloroethane	378.6	8.8	29	400	0	94.6	78-125	0			H
1,2-Dichloropropane	425.4	9.6	32	400	0	106	75-125	0			H
1,3,5-Trimethylbenzene	372.4	13	43	400	0	93.1	75-130	0			H
1,3-Dichlorobenzene	396.2	6.6	22	400	0	99	75-130	0			H
1,3-Dichloropropane	401	8	26	400	0	100	75-125	0			H
1,4-Dichlorobenzene	359	7	23	400	0	89.8	75-130	0			H
2,2-Dichloropropane	444	10	34	400	0	111	43-150	0			H
2-Butanone	428.2	10	35	400	0	107	55-150	0			H
2-Chlorotoluene	368.2	7.2	24	400	0	92	76-117	0			H
4-Chlorotoluene	370.4	6.2	20	400	0	92.6	80-125	0			H
4-Methyl-2-pentanone	522.4	10	35	400	0	131	77-178	0			H
Acetone	390	120	410	400	7	95.8	60-160	0			JH
Benzene	408.8	9.2	30	400	0	102	70-130	0			H
Bromobenzene	388.8	7.6	25	400	0	97.2	80-125	0			H
Bromochloromethane	436.8	9	30	400	0	109	72-141	0			H
Bromodichloromethane	384	9.8	33	400	0	96	75-125	0			H
Bromoform	310	11	37	400	0	77.5	60-125	0			H
Bromomethane	651	18	60	400	0	163	30-185	0			H
Carbon tetrachloride	381.8	8	27	400	0	95.4	65-140	0			H
Chlorobenzene	399.6	8	27	400	0	99.9	80-120	0			H
Chloroethane	773.6	14	45	400	0	193	31-172	0			SH
Chloroform	379.2	9.2	31	400	0	94.8	66-135	0			H
Chloromethane	317.4	17	55	400	0	79.4	46-148	0			H
cis-1,2-Dichloroethene	408.2	8.4	28	400	0	102	75-134	0			H
cis-1,3-Dichloropropene	368.2	11	38	400	0	92	70-130	0			H
Dibromochloromethane	343.2	8	26	400	0	85.8	60-115	0			H
Dibromomethane	390.6	13	43	400	0	97.6	79-126	0			H
Dichlorodifluoromethane	435	14	45	400	0	109	10-180	0			H
Ethylbenzene	391	6.8	22	400	0	97.8	76-123	0			H

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	372	11	37	400	0	93	70-155	0	H
Isopropylbenzene	420.8	7	23	400	0	105	80-127	0	H
m,p-Xylene	833.6	16	54	800	0	104	75-130	0	H
Methyl tert-butyl ether	541.6	9	30	400	0	135	68-129	0	SH
Methylene chloride	411	17	58	400	0	103	72-125	0	H
Naphthalene	263	15	51	400	0	65.8	55-160	0	H
n-Butylbenzene	364	6.8	22	400	0	91	75-145	0	H
n-Propylbenzene	370.6	9.6	32	400	0	92.6	76-116	0	H
o-Xylene	398	6.2	21	400	0	99.5	76-127	0	H
p-Isopropyltoluene	374.4	5.2	18	400	0	93.6	61-164	0	H
sec-Butylbenzene	381.8	6	20	400	0	95.4	80-134	0	H
Styrene	413.8	6.6	22	400	0	103	79-117	0	H
tert-Butylbenzene	381	7.8	26	400	0	95.2	70-130	0	H
Tetrachloroethene	395.8	7.8	26	400	0	99	68-166	0	H
Toluene	397.4	9	30	400	0	99.4	76-125	0	H
trans-1,2-Dichloroethene	425	9.6	32	400	0	106	80-140	0	H
trans-1,3-Dichloropropene	387.8	7.6	55	400	0	97	56-132	0	H
Trichloroethene	358.4	8.6	29	400	0	89.6	77-125	0	H
Trichlorofluoromethane	456	10	34	400	0	114	60-140	0	H
Vinyl chloride	400	11	35	400	0	100	50-136	0	H
Xylenes, Total	1232	16	89	1200	0	103	76-127	0	H
Surr: 1,2-Dichloroethane-d4	*392*	0	0	*400*	0	*98*	*75-120*	0	
Surr: 4-Bromofluorobenzene	*405.2*	0	0	*400*	0	*101*	*80-110*	0	
Surr: Dibromofluoromethane	*403*	0	0	*400*	0	*101*	*85-115*	0	
Surr: Toluene-d8	*403*	0	0	*400*	0	*101*	*85-110*	0	

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

MSD Sample ID: **21082011-02A MSD** Units: **µg/L** Analysis Date: **8/27/2021 11:30 PM**
Client ID: Run ID: **VMS8_210827A** SeqNo: **7704558** Prep Date: DF: **20**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	392	7.6	26	400	0	98	73-114	381.8	2.64	30	H
1,1,1-Trichloroethane	419.4	9.2	30	400	0	105	75-130	413.6	1.39	30	H
1,1,2,2-Tetrachloroethane	416.6	8	27	400	0	104	75-130	405.4	2.73	30	H
1,1,2-Trichloroethane	405	9.2	31	400	0	101	75-125	392.6	3.11	30	H
1,1-Dichloroethane	397.6	8.8	29	400	0	99.4	68-142	385.8	3.01	30	H
1,1-Dichloroethene	466.2	8	27	400	0	117	70-145	456	2.21	30	H
1,1-Dichloropropene	413.2	7.4	25	400	0	103	75-135	389.2	5.98	30	H
1,2,3-Trichlorobenzene	293	8.4	28	400	0	73.2	70-140	288.8	1.44	30	H
1,2,3-Trichloropropane	360.6	8	26	400	0	90.2	75-125	351.4	2.58	30	H
1,2,4-Trichlorobenzene	349.6	9	30	400	0	87.4	70-135	333.2	4.8	30	H
1,2,4-Trimethylbenzene	389.4	9	30	400	0	97.4	75-130	386.8	0.67	30	H
1,2-Dibromo-3-chloropropane	300	8.6	29	400	0	75	60-130	284.2	5.41	30	H
1,2-Dibromoethane	408.2	8.2	27	400	0	102	67-155	396.8	2.83	30	H
1,2-Dichlorobenzene	368.2	6.4	21	400	0	92	70-130	354.4	3.82	30	H
1,2-Dichloroethane	403.8	8.8	29	400	0	101	78-125	378.6	6.44	30	H
1,2-Dichloropropane	443.4	9.6	32	400	0	111	75-125	425.4	4.14	30	H
1,3,5-Trimethylbenzene	383.6	13	43	400	0	95.9	75-130	372.4	2.96	30	H
1,3-Dichlorobenzene	409.2	6.6	22	400	0	102	75-130	396.2	3.23	30	H
1,3-Dichloropropane	401.6	8	26	400	0	100	75-125	401	0.15	30	H
1,4-Dichlorobenzene	378	7	23	400	0	94.5	75-130	359	5.16	30	H
2,2-Dichloropropane	457.4	10	34	400	0	114	43-150	444	2.97	30	H
2-Butanone	439.4	10	35	400	0	110	55-150	428.2	2.58	30	H
2-Chlorotoluene	375	7.2	24	400	0	93.8	76-117	368.2	1.83	30	H
4-Chlorotoluene	375.6	6.2	20	400	0	93.9	80-125	370.4	1.39	30	H
4-Methyl-2-pentanone	566.8	10	35	400	0	142	77-178	522.4	8.15	30	H
Acetone	416.6	120	410	400	7	102	60-160	390	6.6	30	H
Benzene	419.8	9.2	30	400	0	105	70-130	408.8	2.66	30	H
Bromobenzene	399.8	7.6	25	400	0	100	80-125	388.8	2.79	30	H
Bromochloromethane	463.6	9	30	400	0	116	72-141	436.8	5.95	30	H
Bromodichloromethane	416.2	9.8	33	400	0	104	75-125	384	8.05	30	H
Bromoform	316.6	11	37	400	0	79.2	60-125	310	2.11	30	H
Bromomethane	668.6	18	60	400	0	167	30-185	651	2.67	30	H
Carbon tetrachloride	401.2	8	27	400	0	100	65-140	381.8	4.96	30	H
Chlorobenzene	417.4	8	27	400	0	104	80-120	399.6	4.36	30	H
Chloroethane	835.6	14	45	400	0	209	31-172	773.6	7.71	30	SH
Chloroform	395.2	9.2	31	400	0	98.8	66-135	379.2	4.13	30	H
Chloromethane	336.6	17	55	400	0	84.2	46-148	317.4	5.87	30	H
cis-1,2-Dichloroethene	410.6	8.4	28	400	0	103	75-134	408.2	0.586	30	H
cis-1,3-Dichloropropene	382.4	11	38	400	0	95.6	70-130	368.2	3.78	30	H
Dibromochloromethane	356	8	26	400	0	89	60-115	343.2	3.66	30	H
Dibromomethane	414.6	13	43	400	0	104	79-126	390.6	5.96	30	H
Dichlorodifluoromethane	435.8	14	45	400	0	109	10-180	435	0.184	30	H
Ethylbenzene	386	6.8	22	400	0	96.5	76-123	391	1.29	30	H

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R325443a** Instrument ID **VMS8** Method: **SW8260C**

Hexachlorobutadiene	383.2	11	37	400	0	95.8	70-155	372	2.97	30	H
Isopropylbenzene	433.8	7	23	400	0	108	80-127	420.8	3.04	30	H
m,p-Xylene	806.6	16	54	800	0	101	75-130	833.6	3.29	30	H
Methyl tert-butyl ether	554	9	30	400	0	138	68-129	541.6	2.26	30	SH
Methylene chloride	426.6	17	58	400	0	107	72-125	411	3.72	30	H
Naphthalene	275.6	15	51	400	0	68.9	55-160	263	4.68	30	H
n-Butylbenzene	380.2	6.8	22	400	0	95	75-145	364	4.35	30	H
n-Propylbenzene	381.6	9.6	32	400	0	95.4	76-116	370.6	2.92	30	H
o-Xylene	397.2	6.2	21	400	0	99.3	76-127	398	0.201	30	H
p-Isopropyltoluene	393	5.2	18	400	0	98.2	61-164	374.4	4.85	30	H
sec-Butylbenzene	392.2	6	20	400	0	98	80-134	381.8	2.69	30	H
Styrene	424.2	6.6	22	400	0	106	79-117	413.8	2.48	30	H
tert-Butylbenzene	390.8	7.8	26	400	0	97.7	70-130	381	2.54	30	H
Tetrachloroethene	392.6	7.8	26	400	0	98.2	68-166	395.8	0.812	30	H
Toluene	406.4	9	30	400	0	102	76-125	397.4	2.24	30	H
trans-1,2-Dichloroethene	431.8	9.6	32	400	0	108	80-140	425	1.59	30	H
trans-1,3-Dichloropropene	396.2	7.6	55	400	0	99	56-132	387.8	2.14	30	H
Trichloroethene	376.4	8.6	29	400	0	94.1	77-125	358.4	4.9	30	H
Trichlorofluoromethane	463	10	34	400	0	116	60-140	456	1.52	30	H
Vinyl chloride	415.6	11	35	400	0	104	50-136	400	3.83	30	H
Xylenes, Total	1204	16	89	1200	0	100	76-127	1232	2.28	30	H
Surr: 1,2-Dichloroethane-d4	*394.4*	0	0	*400*	0	*98.6*	*75-120*	392	*0.61*	*30*	
Surr: 4-Bromofluorobenzene	*398*	0	0	*400*	0	*99.5*	*80-110*	405.2	*1.79*	*30*	
Surr: Dibromofluoromethane	*404*	0	0	*400*	0	*101*	*85-115*	403	*0.248*	*30*	
Surr: Toluene-d8	*402.4*	0	0	*400*	0	*101*	*85-110*	403	*0.149*	*30*	

The following samples were analyzed in this batch: 21081889-01A 21081889-02A 21081889-08A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gannett Fleming, Inc.
Work Order: 21081889
Project: Koeller (47358.003)

QC BATCH REPORT

Batch ID: **R325619** Instrument ID **VMS9** Method: **SW8260B**

MBLK Sample ID: **9V-BLKW2-210830-R325619** Units: **µg/L** Analysis Date: **8/30/2021 04:44 PM**
Client ID: Run ID: **VMS9_210830A** SeqNo: **7709833** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	U	0.44	1.0								
Surr: Toluene-d8	*4.42*	0	0	*5*	0	*88.4*	*74-124*	0			

LCS Sample ID: **9V-LCSW2-210830-R325619** Units: **µg/L** Analysis Date: **8/30/2021 03:57 PM**
Client ID: Run ID: **VMS9_210830A** SeqNo: **7709832** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	37.55	0.44	1.0	40	0	93.9	70-130	0			
Surr: Toluene-d8	*4.29*	0	0	*5*	0	*85.8*	*74-124*	0			

MS Sample ID: **21082492-02A MS** Units: **µg/L** Analysis Date: **8/30/2021 06:33 PM**
Client ID: Run ID: **VMS9_210830A** SeqNo: **7709839** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	35.1	0.44	1.0	40	0	87.8	70-130	0			
Surr: Toluene-d8	*4.21*	0	0	*5*	0	*84.2*	*74-124*	0			

DUP Sample ID: **21082492-01A DUP** Units: **µg/L** Analysis Date: **8/30/2021 06:17 PM**
Client ID: Run ID: **VMS9_210830A** SeqNo: **7709838** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	U	0.44	1.0	0	0	0		0.62	0	30	
Surr: Toluene-d8	*4.63*	0	0	*5*	0	*92.6*	*74-124*	4.4	*5.09*	*30*	

The following samples were analyzed in this batch: 21081889-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 231189

ALS Project Manager: JD | ALS Work Order #: 21081889

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	2021 ALS	Project Name	Koeller	A	VOCs
Work Order		Project Number	47358.003	B	1,4-Dioxane 8260 SIM
Company Name	Gannett Fleming, Inc	Bill To Company	Gannett Fleming, Inc	C	PFAS 537 Mod.
Send Report To	Tony Miller	Invoice Attn	Accounts Payable	D	
Address	8040 Excelsior Drive Suite 303	Address	8040 Excelsior Drive Suite 303	E	
				F	
City/State/Zip	Madison, WI 53717-1338	City/State/Zip	Madison, WI 53717-1338	G	
Phone	(608) 826-1500	Phone	(608) 826-1500	H	
Fax		Fax		I	
e-Mail Address	awmiller@gfnet.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	8/18/21	1400	GW	HCl	6	X	X	X								
2	MW-2		1255			3											
3	MW-3		1325														
4	MW-4		1140														
5	MW-5		1025														
6	MW-6		1210														
7	MW-7		1105														
8	MW-1 Dup		1405			2											
9	~~MW~~ Field Blank			W		2			X								
10	Trip Blank			W	HCl	3	X										

Sampler(s) Please Print & Sign: Marcus Mussey

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:		Date: 8/19/21	Time: 9:30	Received by: FedEx	
Relinquished by: FedEx		Date: 8/20/21	Time: 0830	Received by (Laboratory):	
Logged by (Laboratory): KR		Date: 8/20/21	Time: 1445	Checked by (Laboratory):	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes:

Cooler ID	Cooler Temp.
1R3	4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **GANNETTFLEMING - WI** Date/Time Received: **20-Aug-21 08:30**

Work Order: **21081889** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 20-Aug-21 (Date) Reviewed by: Jodi Blouw (eSignature) 20-Aug-21 (Date)

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.4/5.4 C	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/20/2021 2:45:00 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ATTACHMENT B

CHART SHOWING PCE CONCENTRATIONS/TREND LINES &
DEPTH TO WATER MEASURED IN MW-1

Gannett Fleming

PCE CONCENTRATIONS AND DEPTH TO WATER TABLE MEASURED IN MW-1 OCTOBER 2006 - AUGUST 2021